

032273

DM - 04

**French Limited Project
Natural Attenuation Progress
and
Site Status Report**

3rd Quarter, 1996

September, 1996

Submitted to: U.S. Environmental Protection Agency - Region 6
Dallas, TX

Prepared by: FLTG, Inc.
Crosby, TX

2005310



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DWS

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Site Status Report

French Limited Project
3rd Quarter, 1996

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1.0 Introduction

The shallow alluvial zone aquifer in the vicinity of the French site has been affected by chemicals which migrated from the main waste lagoon. Bioremediation of the main waste lagoon and a subsurface containment wall have eliminated the source of chemicals to the shallow alluvial zone aquifer. Active remediation of the shallow zone aquifer has reduced the chemicals in the aquifer to the levels where natural attenuation will achieve the aquifer clean-up criteria in 10 years or less.

2.0 Summary

- Sampled and analyzed groundwater as per the site closure plan.
- Dismantled water treatment plant.
- Watered and maintained vegetation on and adjacent to site.
- Inspected site daily to insure security and no off-site impacts.
- Secured all monitoring wells.
- Conducted daily safety reviews for all on-site activities.
- Isolated and secured east end potable water wells.
- Inspected wetland weekly; only some minor maintenance items.
- No unresolved problems or issues.

3.0 Site Closure and Dismantling

- Dismantled the water plant, except the bioreactors, and shipped to Belgium.
- Sold the bioreactors and the electric motors to the Turtle Bayou project.
- Completed the final site grading.
- Developing the final site vegetation plan.
- Watered and maintained vegetation on-site and adjacent to the site.
- Installed chain-link fence around all monitoring wells.
- Sold all surplus material that was stored in the south parking lot.

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- Selected the contractor to transport the bioreactors to Turtle Bayou.
- Selected the contractor to remove the foundations in the water treatment area.
- Suspended full-time site security.

4.0 Ambient Air Management

- Tested all work areas for organic vapors before and during work.
- Tested each well bore for organic vapors before start sampling activities.
- There were no detected organic vapors at the site boundary.
- Full respiratory protection was required for confined space entry.

5.0 Site Maintenance

- Cut grass and weeds.
- Installed groundwater monitoring notice signs.
- Inspected site daily; only minor maintenance was required.

6.0 Wetlands

- Inspected wetlands twice per week.
- There were no major maintenance requirements.
- The main access gate was modified to facilitate pedestrian access.
- The vegetation is growing well and spreading in preferred areas.
- There was no evidence of silting or erosion along the tidal flow channels.
- The fish and bird populations continue to diversify.
- The freshwater islands are stable, and the trees are growing well.
- Completed the conceptual design for an approximate 50-acre wetland to the north.

7.0 Progress Monitoring

Replaced S1-106 with S1-106R; S1-106R was located three feet east of S1-106 and screened at the same level as S1-106.

Section 12.0 of the Site Closure Plan describes the monitoring and modeling program to

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measure the natural attenuation progress. Table 7-1 lists the wells that are sampled, measured, and tested for the progress monitoring program; the water level is measured in each well; NO₃, NH₄, PO₄, TOC, acetone, 1,2-DCA, vinyl chloride, benzene, and toluene are analyzed on most wells; As, Pb, and Cr are analyzed on 10 wells. Figures 7-1 and 7-2 show the locations of the progress monitoring wells. Table 7-1 also lists the QAQC samples that are to be collected and analyzed as part of each periodic progress monitoring event.

8.0 Water Level

The water level measurements taken on July 10-16 and August 8, 1996, are shown in Figures 8-1, 8-2, 8-3, and 8-4. There were no anomalies in the water level measurements, which were consistent with the shut-down of active aquifer remediation on December 15, 1995. The INT gradient continues in the natural direction to the southwest. The S1 gradient is generally to the east-northeast away from the abandoned landfill; this is probably due to infiltration through the landfill after heavy rains in early July, 1996.

Table 7-1
Progress Monitoring Wells
(1996-2005)

Well No.	Location	Water Level	Analytical Suite											
			NO ₃	NH ₄	PO ₄	TOC	Acetone	1,2-DCA	Vinyl Chloride	Benzene	Toluene	As	Pb	Cr
INT-101	200' SW of W end	X	X		X	X			X	X	X	X	X	X
INT-233	40' S of W end	X	X		X	X			X	X	X			
INT-134	W edge of landfill	X	X		X	X			X	X	X			
INT-135	W edge of landfill	X	X		X	X			X	X	X	X	X	X
INT-144	Riendeau property	X	X		X	X			X	X	X	X	X	X
INT-22	NE corner of landfill	X	X		X	X			X	X	X			
INT-214	80'E of NE corner landfill	X	X		X	X			X	X	X			
INT-217	200'W of S. pond	X	X		X	X			X	X	X			
INT-60-P-3	N of GPR, 200'W of MCC-1	X	X		X	X			X	X	X			
INT-69-P-2	N of GPR, 300'W of MCC-1	X										X	X	X
S1-111	NW corner of S. Pond	X										X	X	X
INT-127	S of INT-11 wall	X	X		X	X			X	X	X			
INT-120	W of INT-11 wall	X	X		X	X			X	X	X			
INT-123	E of INT-11 wall	X	X		X	X			X	X	X			
INT-106	50'S of GPR; 100'E of gate	X	X		X	X			X	X	X			
INT-130R	25' S of office building	X	X		X	X			X	X	X			
INT-130RS	25' S of office building	X	X		X	X			X	X	X			
INT-26	S of GPR, 450'W of gate	X	X		X	X			X	X	X			
INT-108	S of GPR, 180'W of gate	X	X		X	X			X	X	X			
FLTG-13	W of east pond	X	X		X	X			X	X	X			
S1-135	W edge, landfill	X	X		X	X			X	X	X	X	X	X
S1-121	Bet. well & office building	X	X		X	X			X	X	X			
S1-123	30'S of office building	X	X		X	X			X	X	X			
S1-106	250'S of office building	X	X		X	X			X	X	X			
FLTG-14	W of east pond	X	X		X	X			X	X	X			
S1-31	20'S of wall, W end	X	X		X	X			X	X	X	X	X	X
S1-33	NE corner of landfill	X	X		X	X			X	X	X	X	X	X
S1-118	Hwy. 90, far W end	X	X		X	X			X	X	X	X	X	X
INT-118	Hwy. 90, far W end	X	X		X	X			X	X	X	X	X	X
S1-131	30'SE of E end wall	X	X		X	X			X	X	X			
S1-106A	S of GPR, 100'E of gate	X	X		X	X			X	X	X			
S1-108A	S of GPR, 180'W of gate	X	X		X	X			X	X	X			
S1-51-P-3	S of GPR, 450'W of gate	X	X		X	X			X	X	X			
S1-119	Inside wall, office bldg.	X												
S1-128	Inside wall, E end	X												
S1-64	Outside wall, E end	X												
P6	Inside wall, 150'E of W gate	X												
P6	Outside wall, 180'E of W gate	X												

Notes:

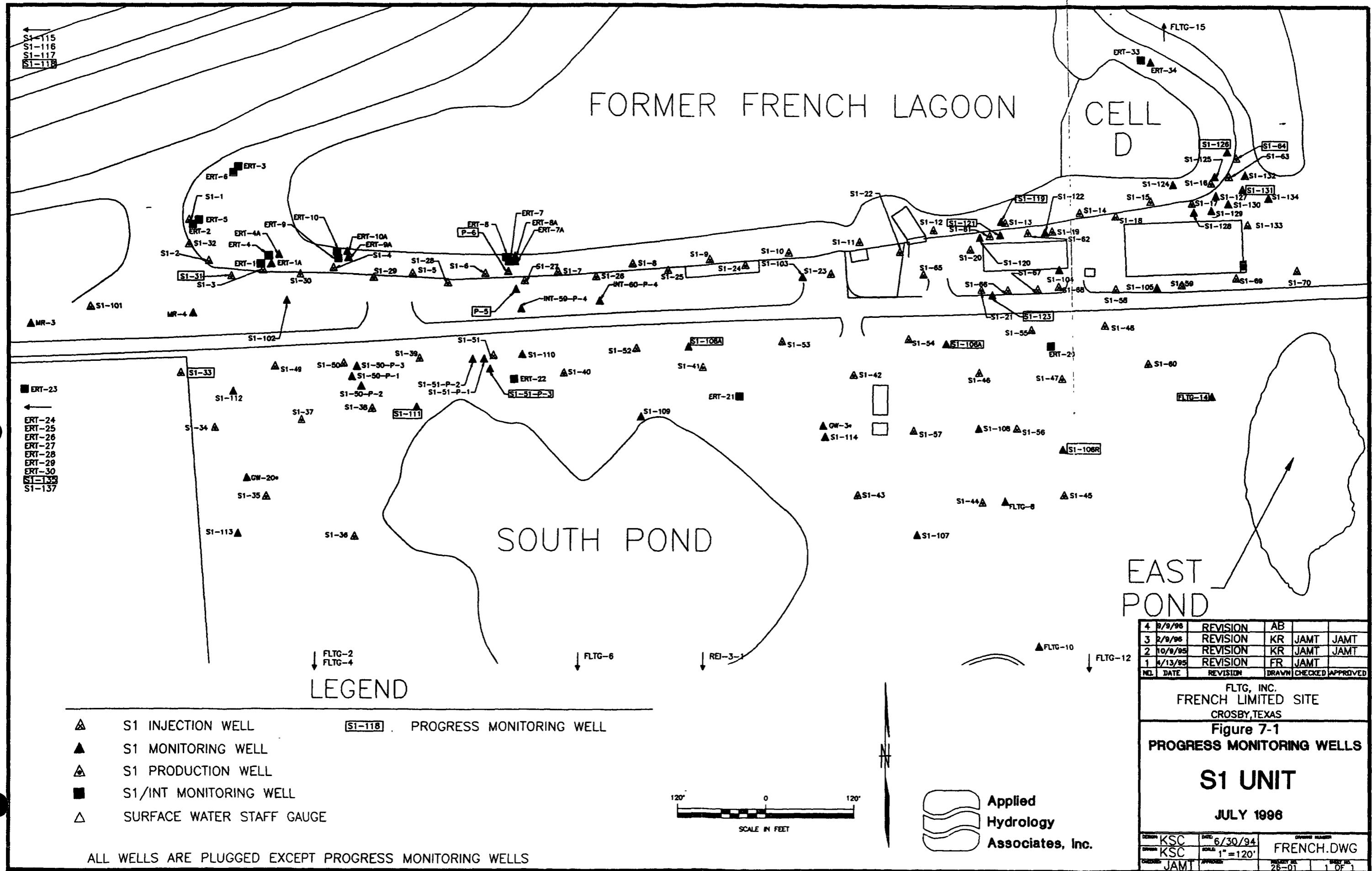
1. Include:
 - Three field duplicates
 - Two trip blanks
 - Two field blanks
 - Two laboratory blanks

2. Field measurement of the following to be taken for all wells to be sampled:

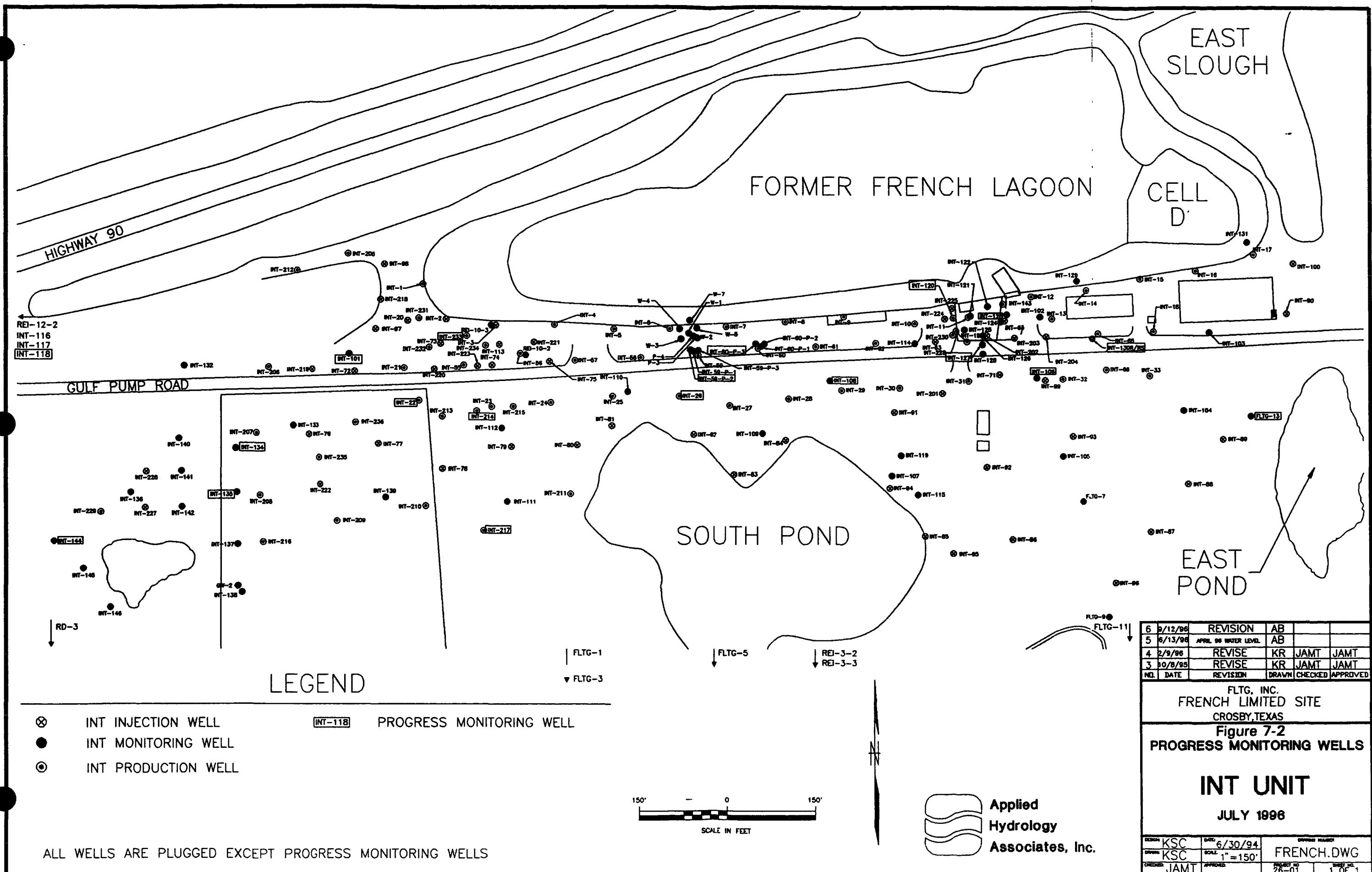
- Temperature
- pH
- EC
- DO

3. All progress monitoring wells will be analyzed for the full priority pollutant list in 1996, 2000, and 2005.

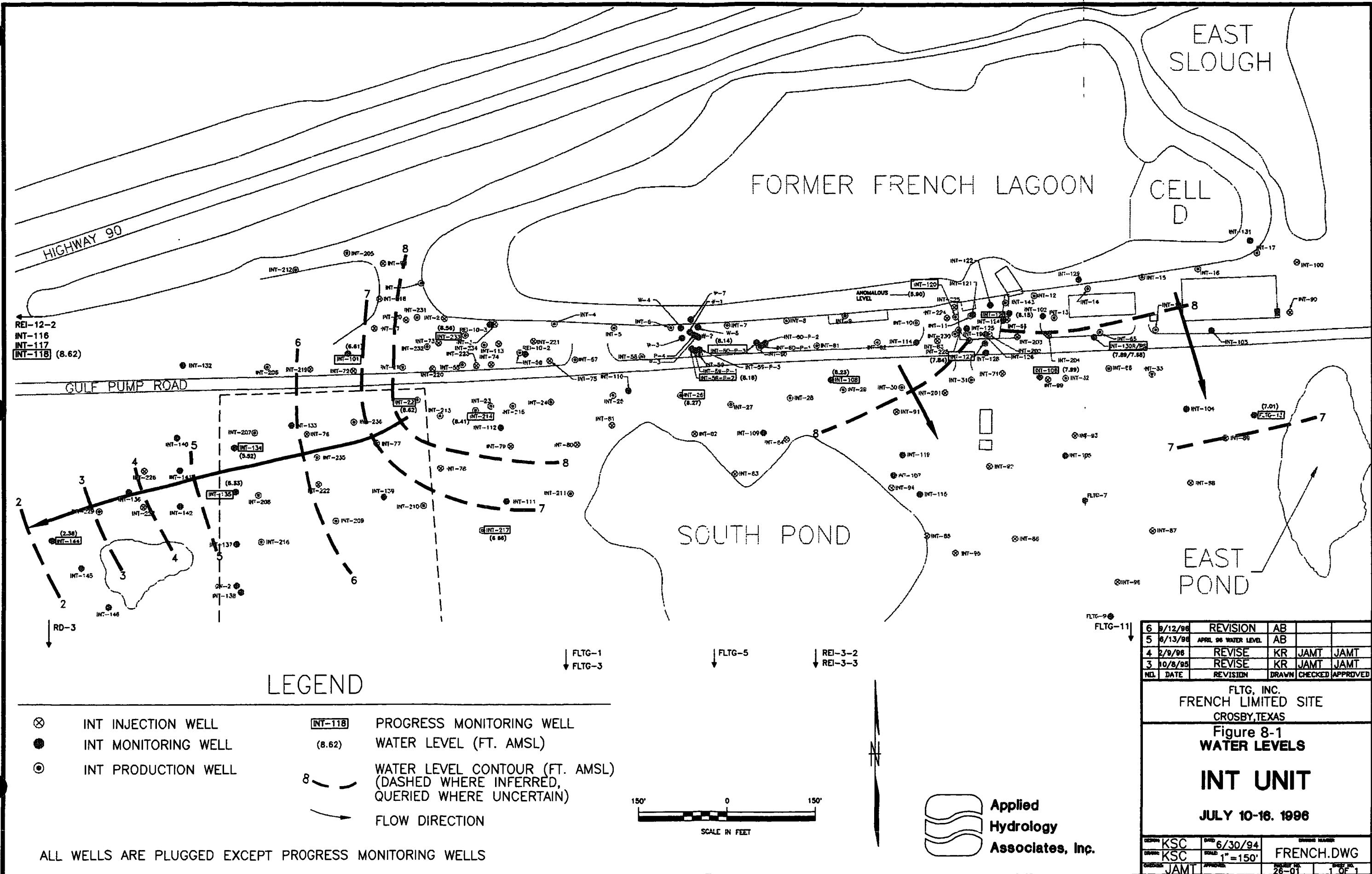
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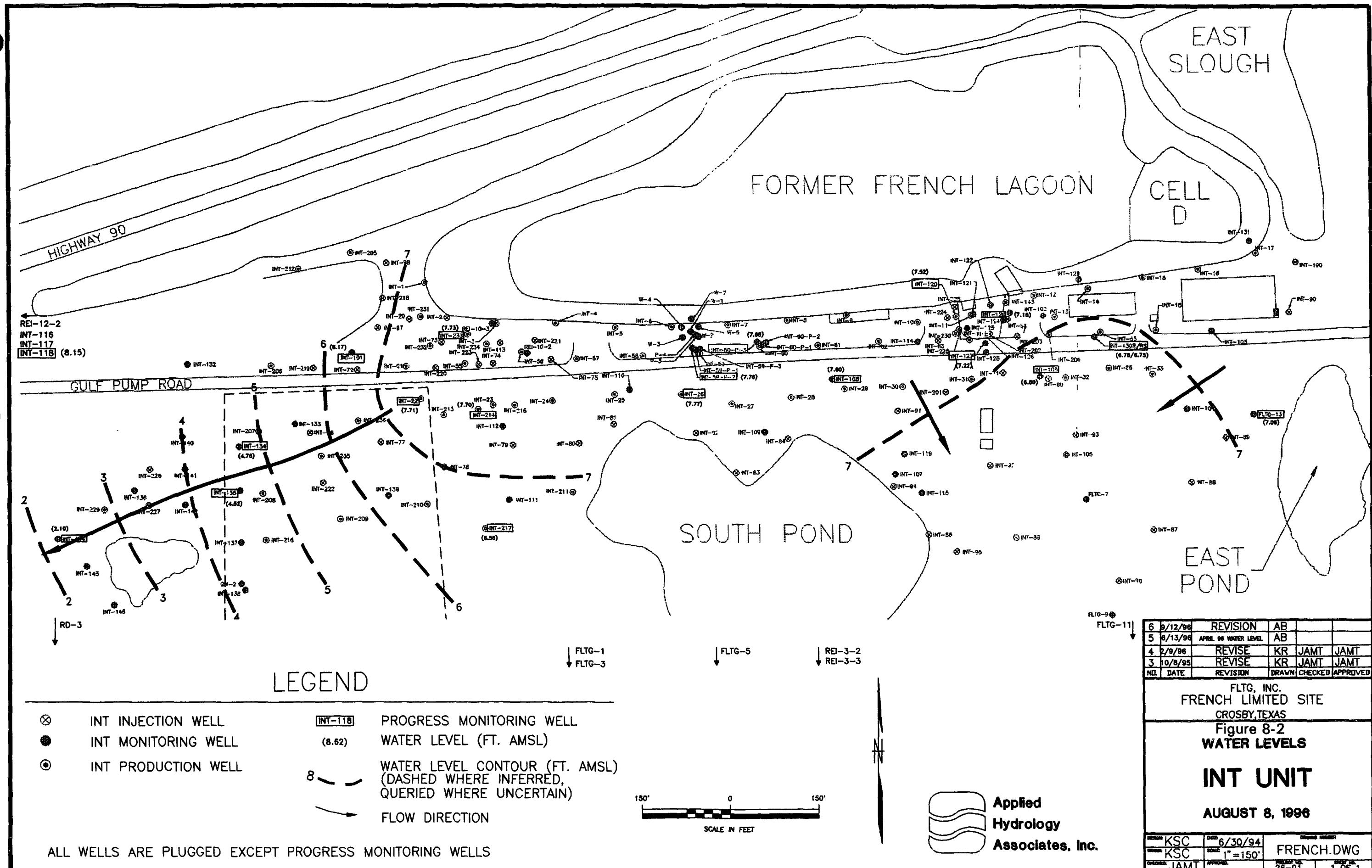


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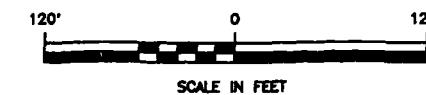
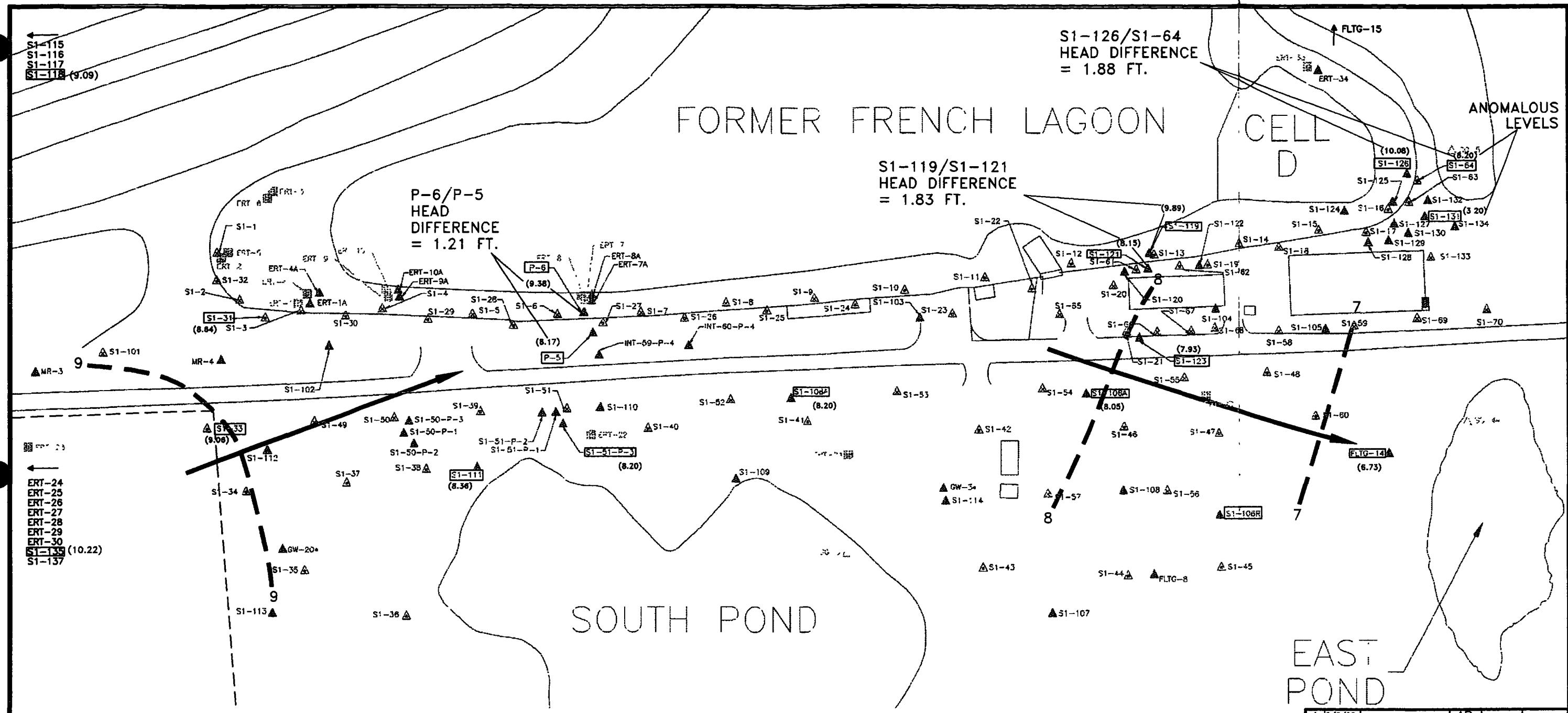


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4	9/9/96	REVISION	AB	
3	2/9/96	REVISION	KR	JAMT JAMT
2	10/9/95	REVISION	KR	JAMT JAMT
1	4/13/95	REVISION	FR	JAMT
	N.D. DATE	REVISION	DRAWN	CHECKED APPROVED

FLTG, INC.
FRENCH LIMITED SITE
CROSBY, TEXAS

Figure 8-3
WATER LEVELS

S1 UNIT

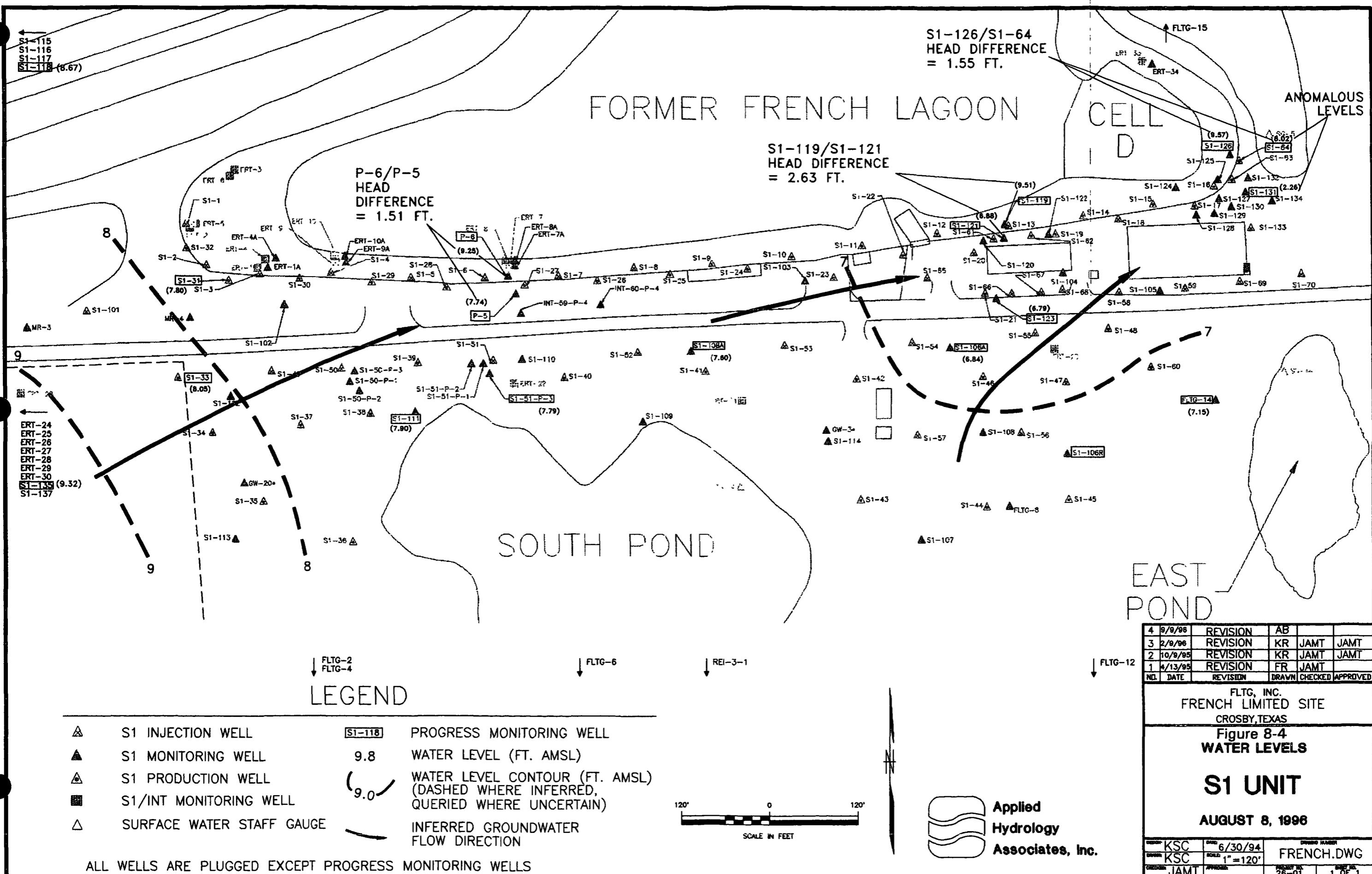
JULY 10-16, 1996

KSC	6/30/94	OWNER NAME
KSC	SCALE 1"=120'	DRAWN BY
JAMT	26-01	APPROVED BY

FRENCH.DWG

1 OF 1

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9.0 Analytical Result Summaries

Attached are the analytical result summaries for the July, 1996, groundwater monitoring event at the French Ltd. Project. These samples were collected between July 10 and July 16, 1996. There are three sections of data as follows:

- Attachment A - Analytical Result Summaries with Historical Data
- Attachment B - Field Duplicate Precision Summaries
- Attachment C - Sampling Method Comparison Summaries

10.0 Analytical QC Summary

All analytical was validated manually for these samples. The data was validated per Level 1 data validation protocols. Level 1 data validation protocols are specified for groundwater progress monitoring samples. All analytical data met QC requirements. There are a few instances where a lower detection limit could have been achieved, but overall, the reported detection limits were adequate for progress monitoring.

There were two (2) Trip Blanks and two (2) Field blanks submitted with these samples. All trip and field blank analytical results were acceptable.

There were five (5) field duplicates submitted with these samples. These were not blind field duplicates. The samples were submitted with the suffix "D" after the well name to indicate a field duplicate (that is, INT-022 and INT-022D). Field duplicates measure both sampling and analytical precision. The duplicate samples were collected immediately after the original sample at each well. The relative percent difference (RPD) results indicate that the analytical and sampling procedures are readily repeatable. A RPD value of 20% or less is acceptable. There were a few instances where the RPD was higher than 20%. In these cases, the concentrations of detected analyte were near or below the detection limit. Analytical results tend to get variable near the detection limit.

There were six (6) wells sampled by both micropurge and conventional purge methods. The wells were first sampled by micropurge (MP1); then the micropurge tube was removed and the well was purged of three casing volumes, allowed to recover, and a sample was collected by a hand bailer (B). The micropurge tube was reinstalled in the well. The well was allowed to settle and another sample was collected via micropurge method (MP2). The summaries of analytical results has RPD calculated for the first micropurge sample versus the second micropurge sample (MP1/MP2), as well as, MP1 versus B and MP2 versus B. Although the data has significant variability throughout the comparison and needs to be looked at on a well-by-well basis, the average RPD for the MP1 versus B is 61% and the average RPD for the MP2 versus B is 41%. This gross measure would seem to indicate that samples collected after bailing three volumes from the well were more representative than those collected by standard micropurge method. Analytical and sampling reproducibility in the field duplicate samples indicate that these factors can be discounted as a possible source of variability in sampling method comparison results.

11.0 Data Evaluation

Results were evaluated as follows:

1. Note concentrations < MCL or ND.
2. Note concentrations > MCL, and trends, if any. Note if DL> MCL.
3. Note residual nitrate.
4. Prepare contour maps for DO, TOC, benzene, 1,2-DCA, and vinyl chloride.

No VOC or nutrient data was provided for INT-59-P2 and S1-111; no metals data was provided for INT-60-P3.

11.1 Groundwater Concentrations of Organics

Groundwater concentrations of organics were reported < MCL or ND in the following wells:

FLTG-13, FLTG-14, INT-22, INT-60-P-3, INT-108, INT-118, INT-135, INT-144, INT-214, S1-31, S1-33, S1-51-P3, S1-108A, S1-118, S1-135

11.2 Groundwater Samples Yielding Concentrations in Excess of MCL's

Groundwater samples from the following wells yielded concentrations in excess of MCL's:

Well	Constituents and Concentrations (mg/L)		Trends	Comments/ Recommended Action
INT-26	Benzene	100	Similar to 4/96.	
INT-101	Arsenic	60	Exactly the same as 4/96.	
	Benzene	36		Check that VOC database is correct.
INT-106	1,2-DCA	54	Down from 4/96.	
INT-120	1,2-DCA	87	1,2-DCA and VC up from 4/96.	
	Vinyl chloride	10		
INT-123	1,2-DCA	270	Up from 4/96.	
	Vinyl chloride	3		
INT-127	Benzene	170	Up from 4/96; VC DL> MCL.	Request lower detection limit in future.
INT-130R	1,2-DCA	450	1,2-DCA down from 4/96;	Provide INT-130 historical data in future.
	Benzene	27	no comparative historic for benzene.	
INT-130RS	1,2-DCA	290	1,2-DCA down from 4/96;	Provide INT-130 historical data in future.
	Benzene	21	no comparative historic for benzene;	
	Vinyl chloride	250	VC up from 4/96.	

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Well	Constituents and Concentrations (mg/L)		Trends	Comments/ Recommended Action
INT-134	1,2-DCA Benzene Vinyl chloride	85 54 140	Up from 4/96.	
INT-217	Benzene Vinyl chloride	16 9	Benzene down. Vinyl chloride similar.	
INT-233	Benzene	350	Benzene declining. VC DL> MCL.	Request lower detection limit in future.
S1-106A	1,2-DCA	7	1,2-DCA up.	
S1-106R	Benzene	35	No historic data provided.	Provide S1-106 historical data in future.
S1-121	1,2-DCA Vinyl chloride	8 8	Down from 4/96.	
S1-123	1,2-DCA Vinyl chloride	19,000 2,600	Both markedly up from 4/96.	
S1-131	1,2-DCA Benzene	6 31	Both up from 4/96.	
S1-135	Arsenic	62	Up from 4/96.	

11.3 Residual Nitrate Exceeding Drinking Water Standard

Residual nitrate exceeded the drinking water standard of 10 mg/L-N at the following wells:

Well	Nitrate in 1/96 (mg/L-N)	Nitrate in 4/96 (mg/L-N)	Nitrate in 7/96 (mg/L-N)	Trend from 4/96
INT-60-P3	41.6	112.0	100.0	down
INT-118	0.2	371.0	0.4	down: 4/96 value was anomalous
INT-120	63.1	23.3	66.0	up
INT-123	25.6	23.2	21.0	down
INT-127	4.0	47.9	<0.1	down
INT-130R	new well	30.6	32.0	up
INT-130RS	new well	23.2	20.0	down
S1-033	131.0	288.0	0.8	down
S1-106A	92.3	16.6	23.3	up
S1-131	8.6	306.0	<0.1	down: 4/96 value was anomalous

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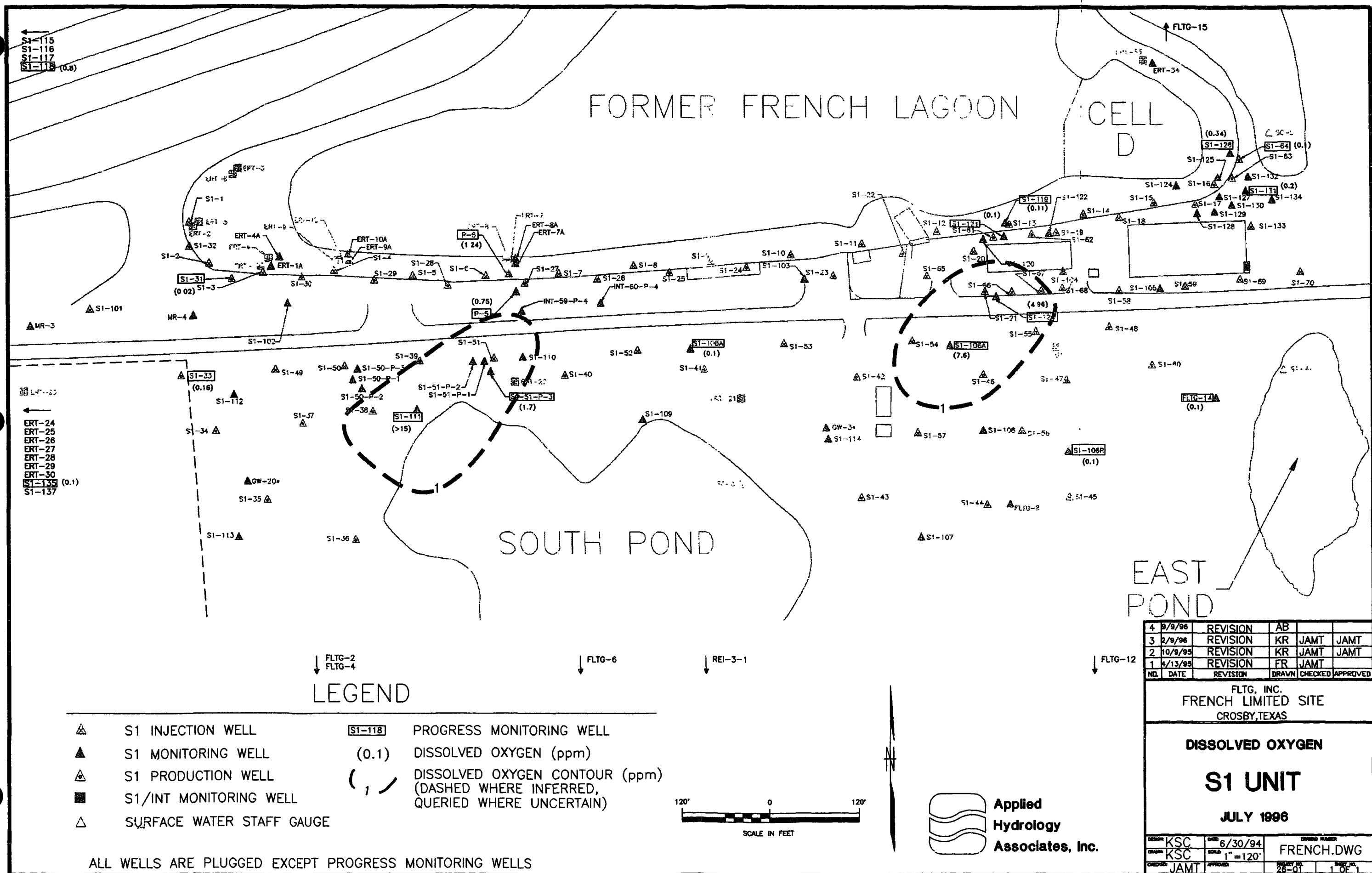
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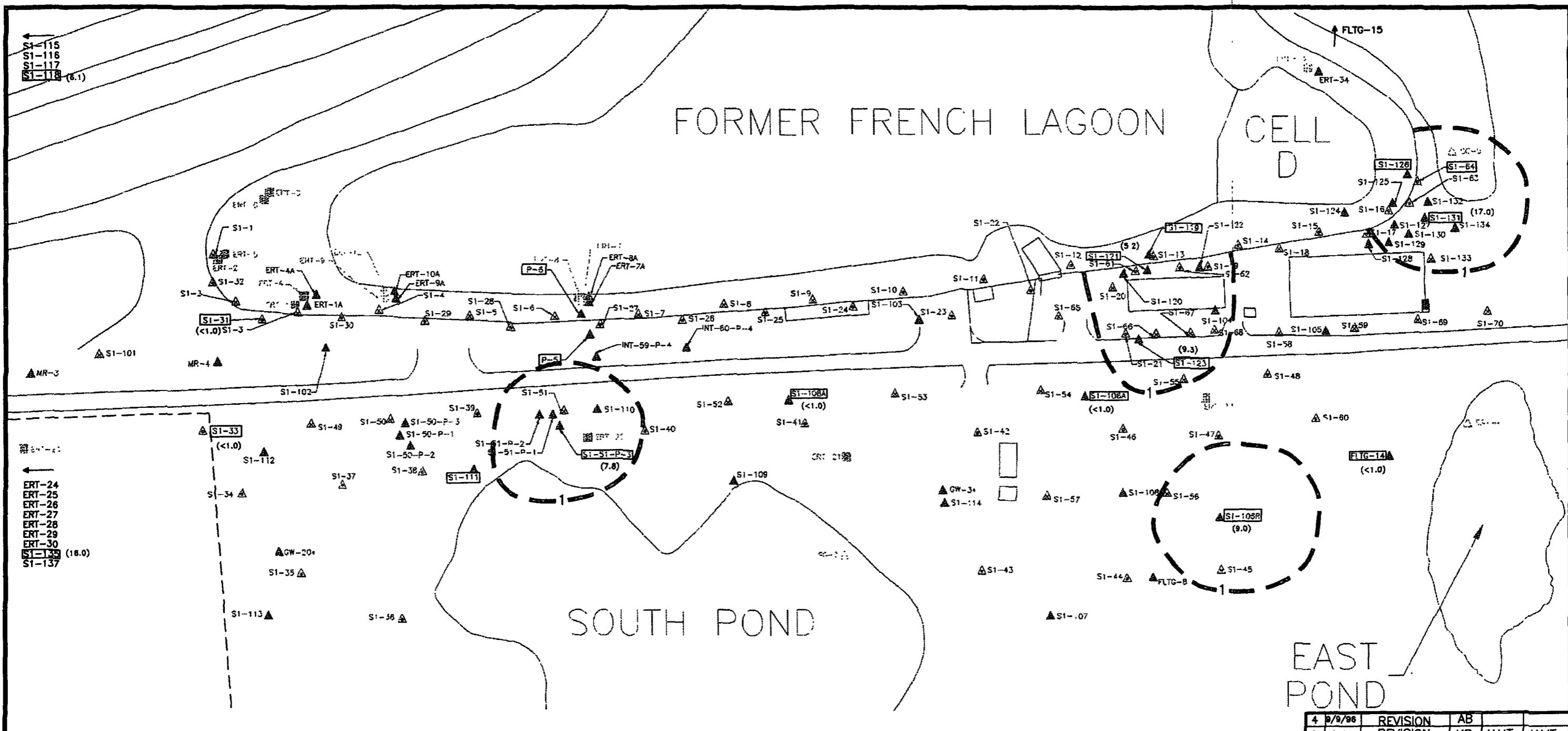
Nitrate concentrations exceeding the MCL are expected to decline with continuing denitrifying reactions related to intrinsic bioremediation. Areas showing increases evidently reflect migration/dispersion of high-nitrate groundwater into formerly low-nitrate areas.

Contour maps for DO, TOC, benzene, 1,2-DCA, and vinyl chloride in July, 1996, for the S1 and INT units are attached.

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NO.	DATE	REVISION	DRAWN	CHECKED	APPROVED
4	9/9/96	REVISION	AB		
3	2/9/96	REVISION	KR	JAMT	JAMT
2	10/9/95	REVISION	KR	JAMT	JAMT
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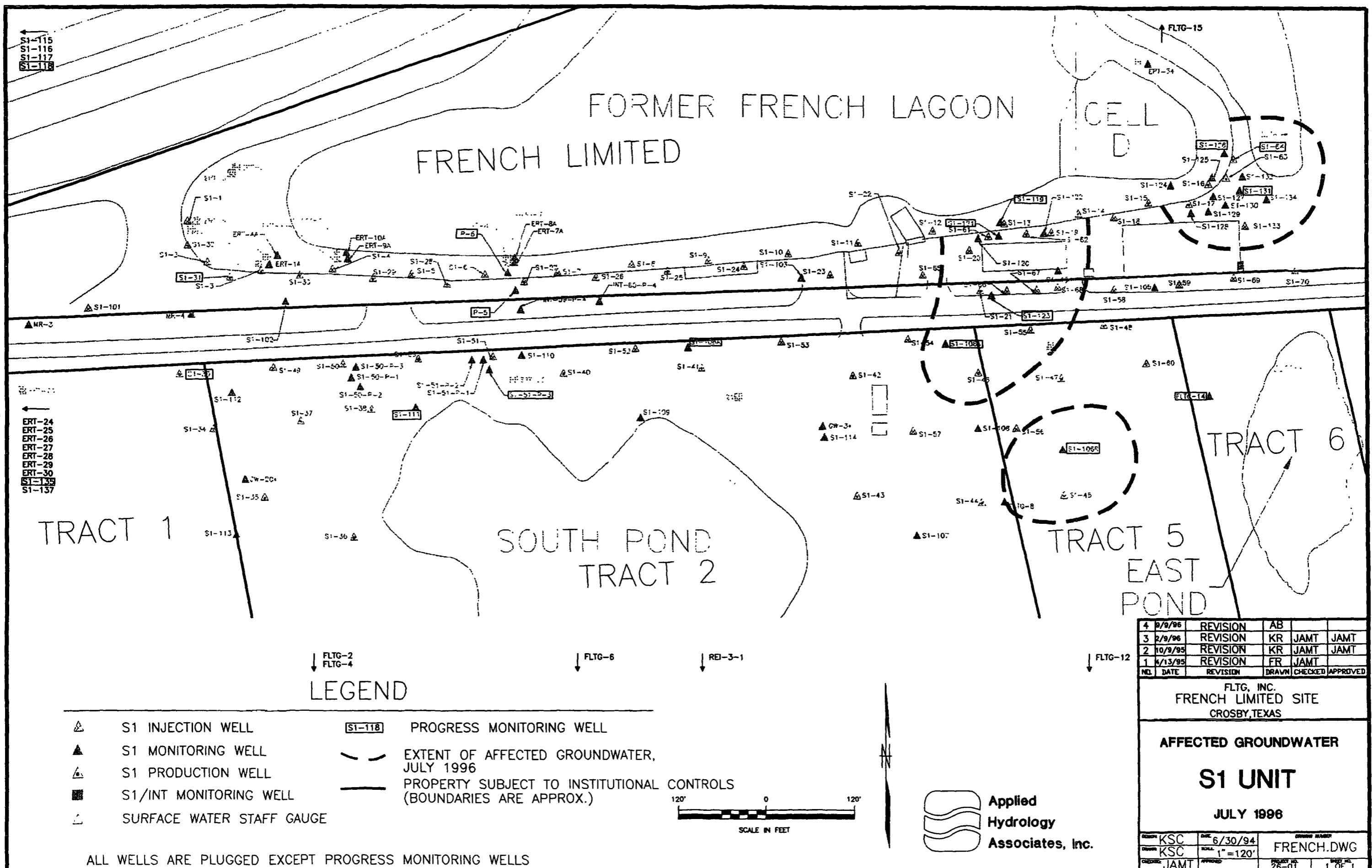
FLTG, INC.
FRENCH LIMITED SITE
CROSBY, TEXAS

TOC
S1 UNIT
JULY 1996

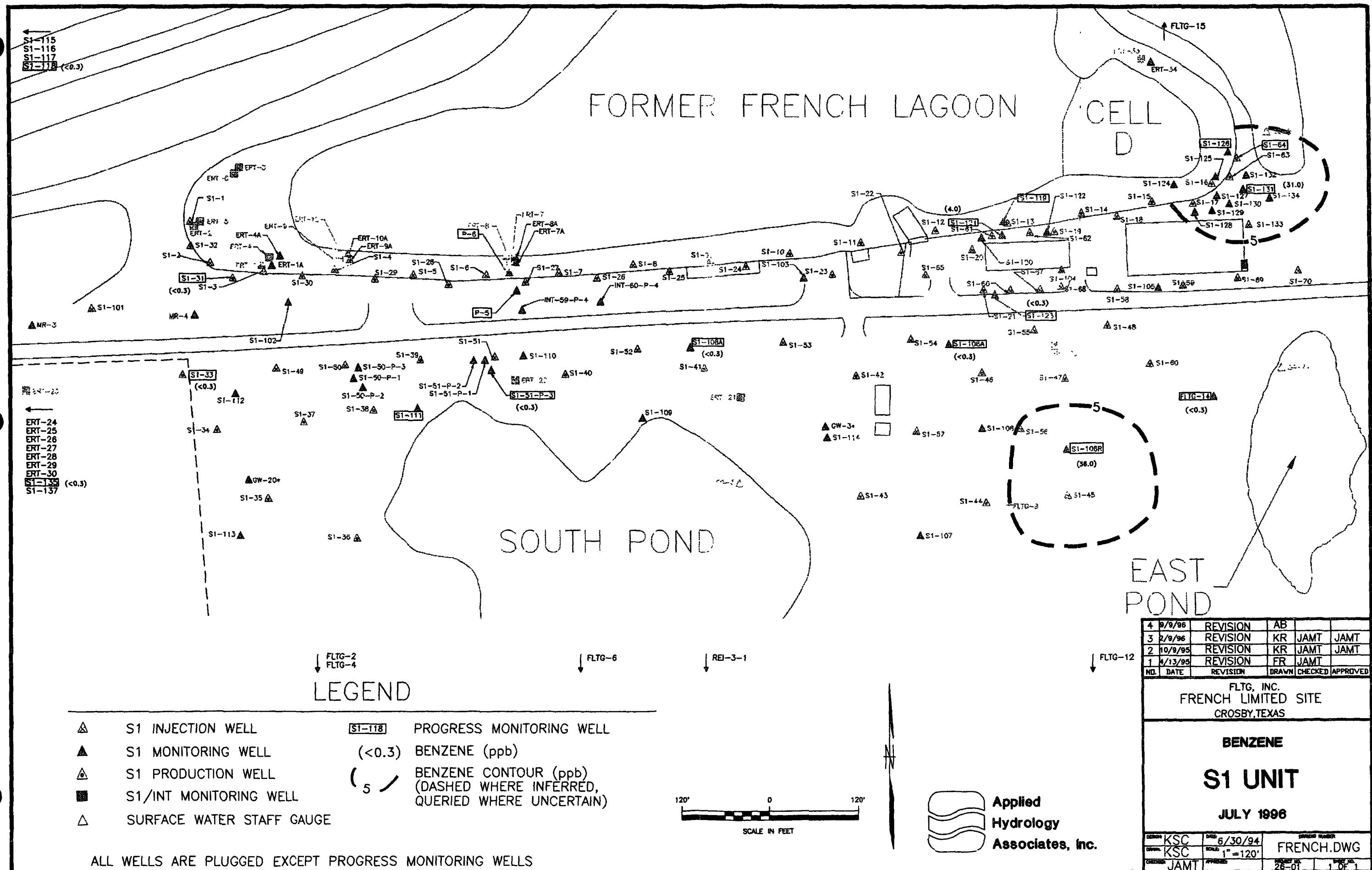
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KSC	1" = 120'	SCALES
JAMT	APPROVED	REVISION
	26-01	1 OF 1

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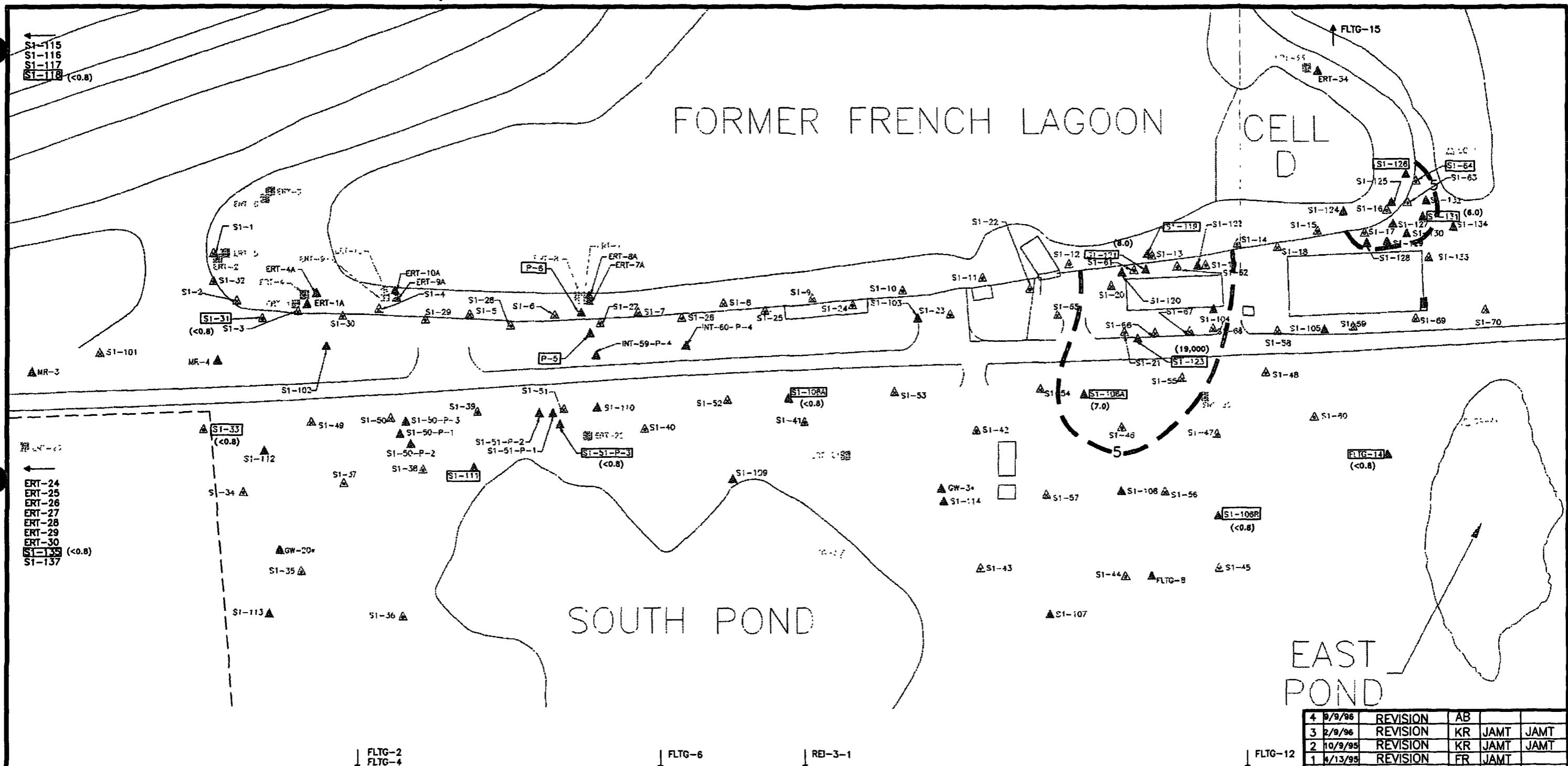
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LEGEND

- ▲ S1 INJECTION WELL
- ▲ S1 MONITORING WELL
- ▲ S1 PRODUCTION WELL
- S1/INT MONITORING WELL
- △ SURFACE WATER STAFF GAUGE
- [S1-118] PROGRESS MONITORING WELL
- (<0.8) 1,2-DCA (ppb)
- (5) 1,2-DCA CONTOUR (ppb)
(DASHED WHERE INFERRED,
QUERIED WHERE UNCERTAIN)
- ALL WELLS ARE PLUGGED EXCEPT PROGRESS MONITORING WELLS

120' 0' 120'
SCALE IN FEET

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KSC	6/30/94
KSC	1" = 120'
JAMT	APPROVED
JAMT	RECEIVED
JAMT	26-01
JAMT	1 OF 1

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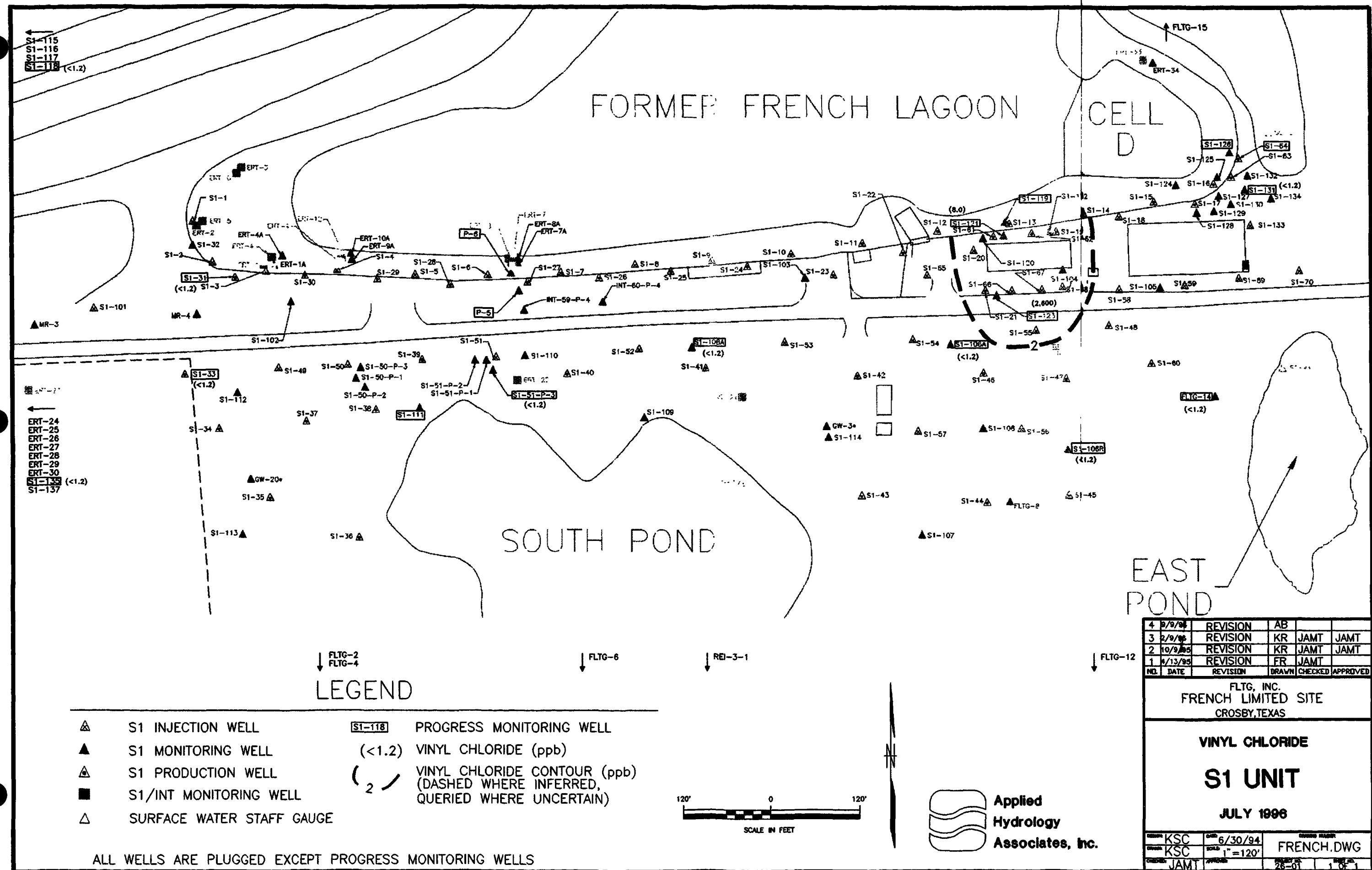
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1,2-DCA

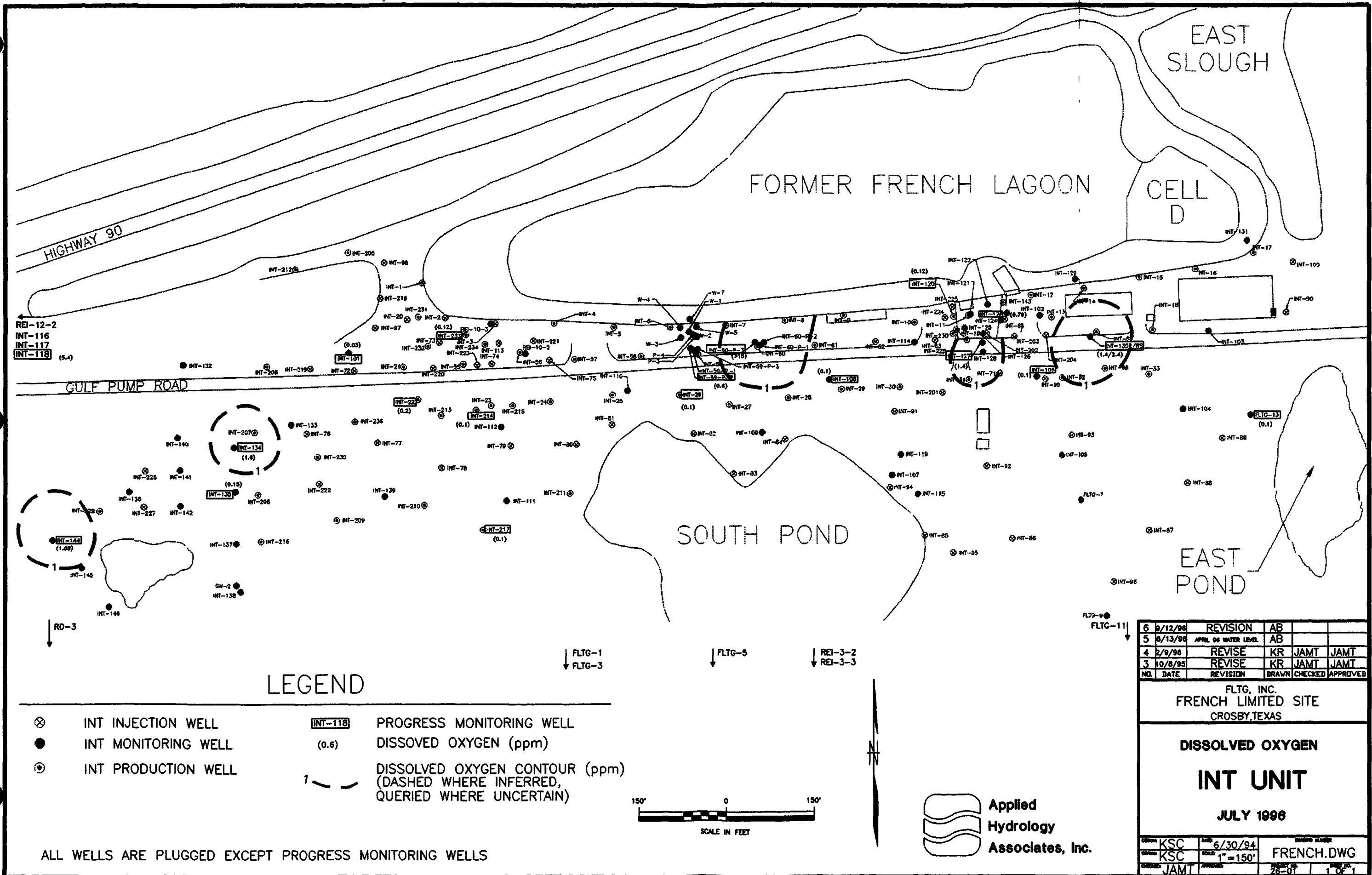
S1 UNIT

JULY 1996

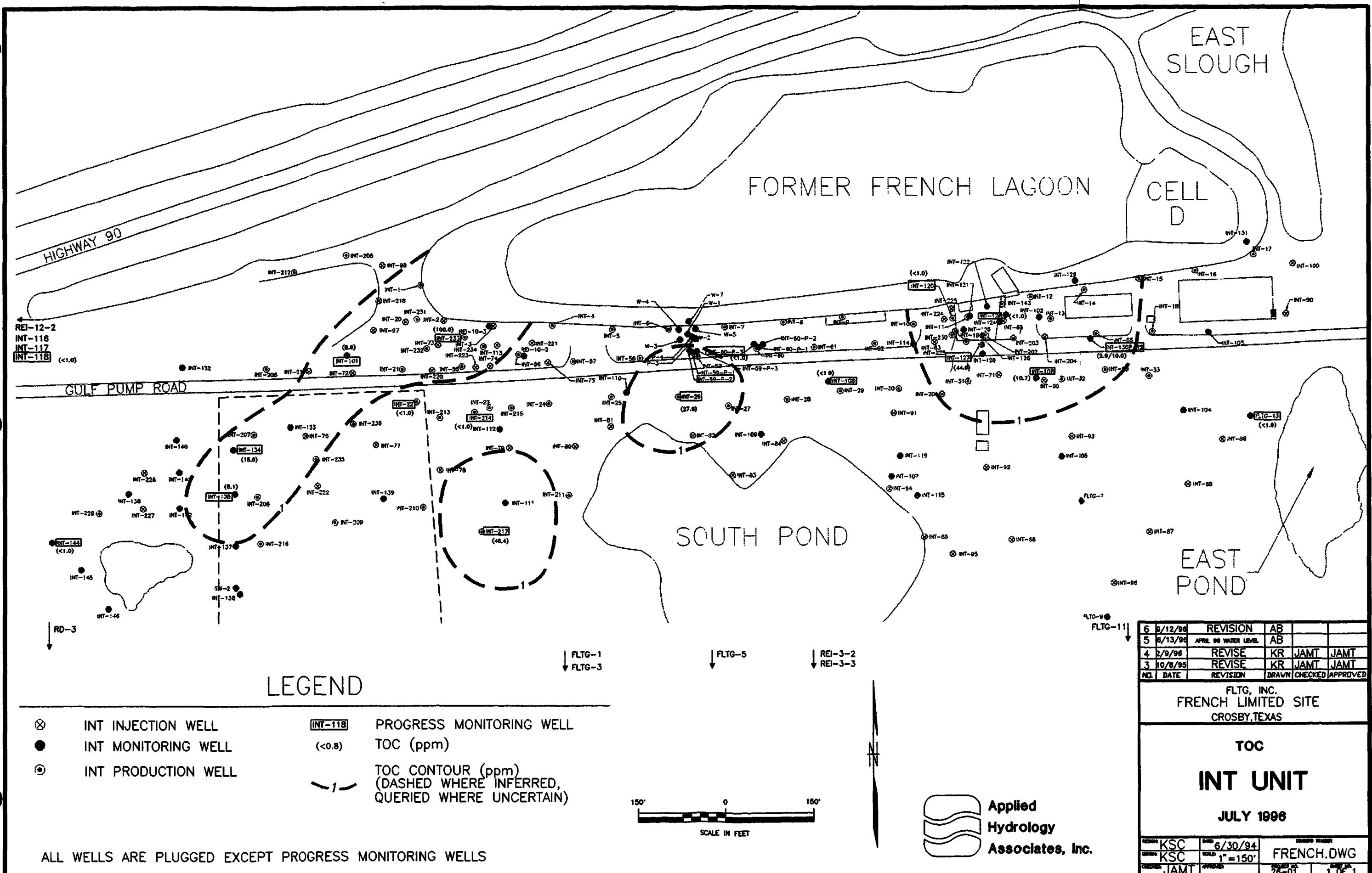
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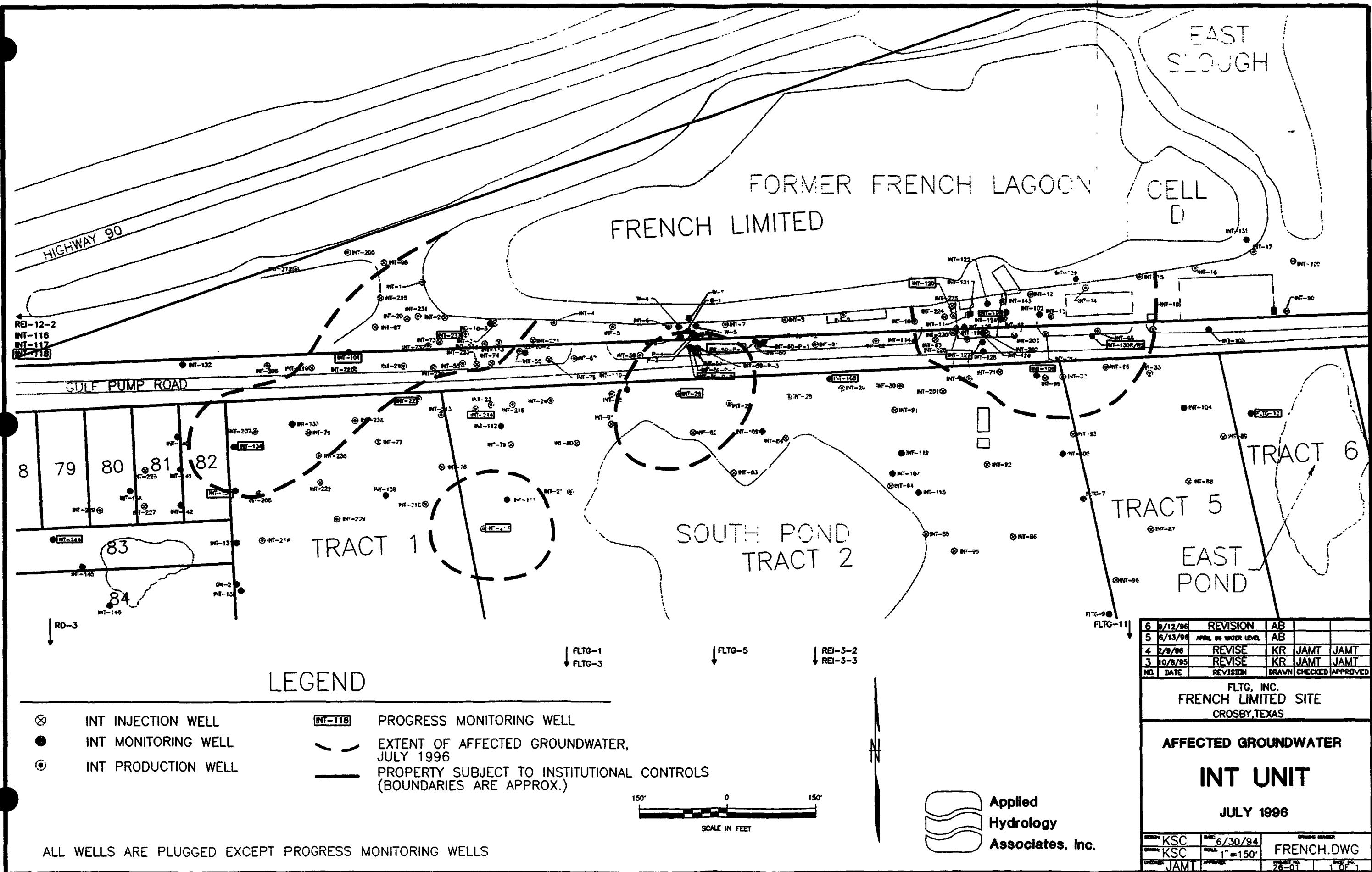
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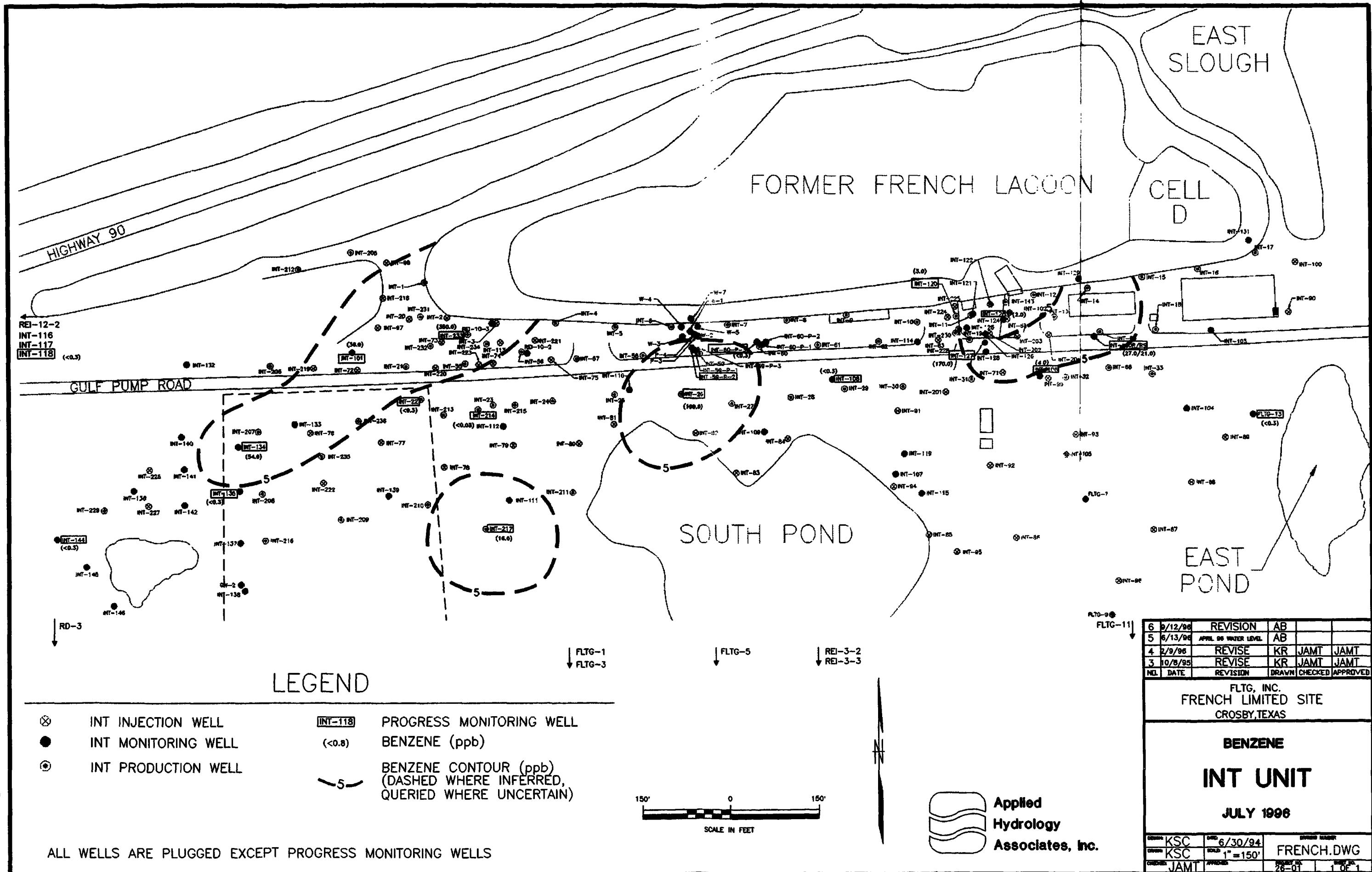
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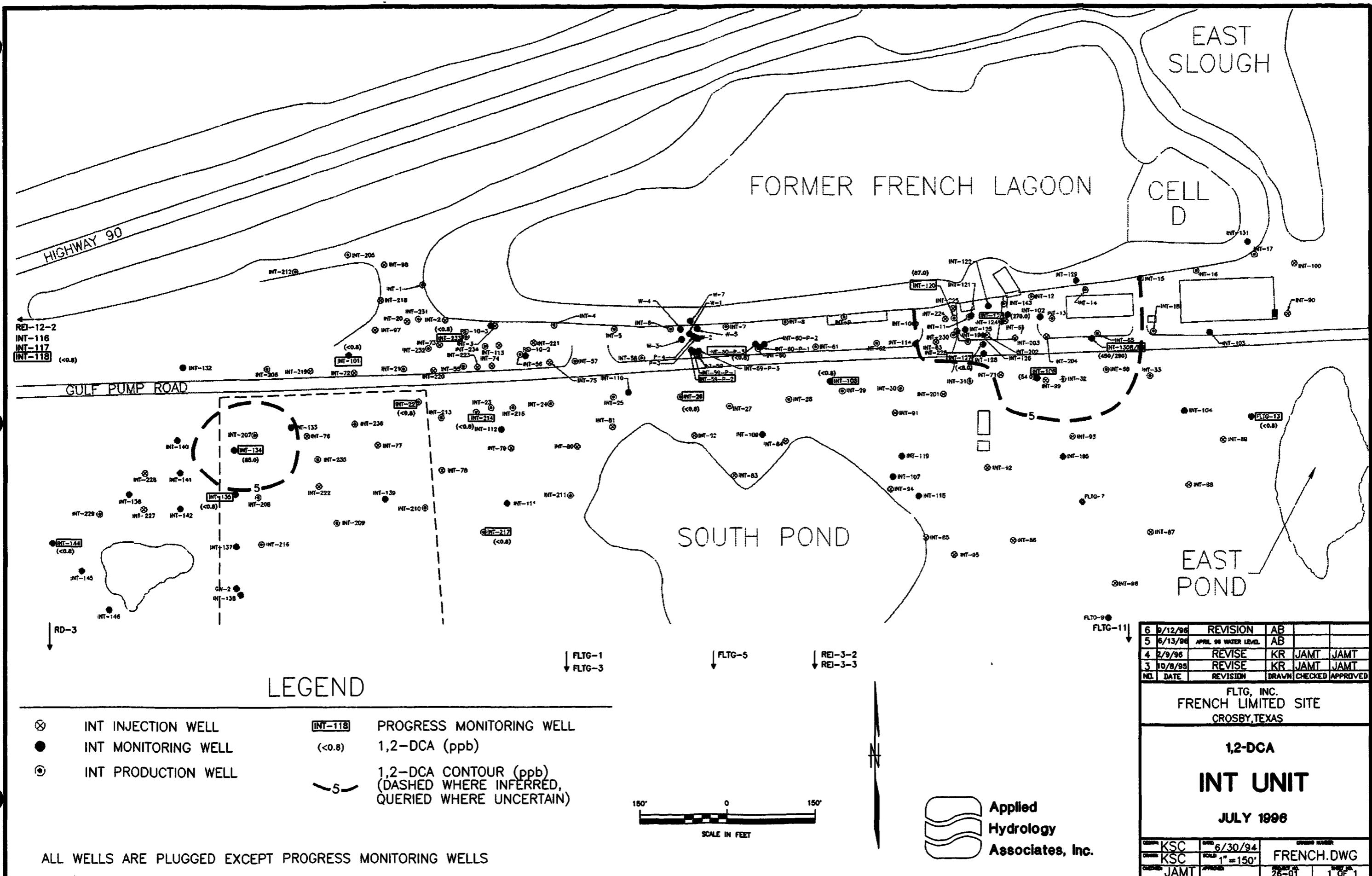
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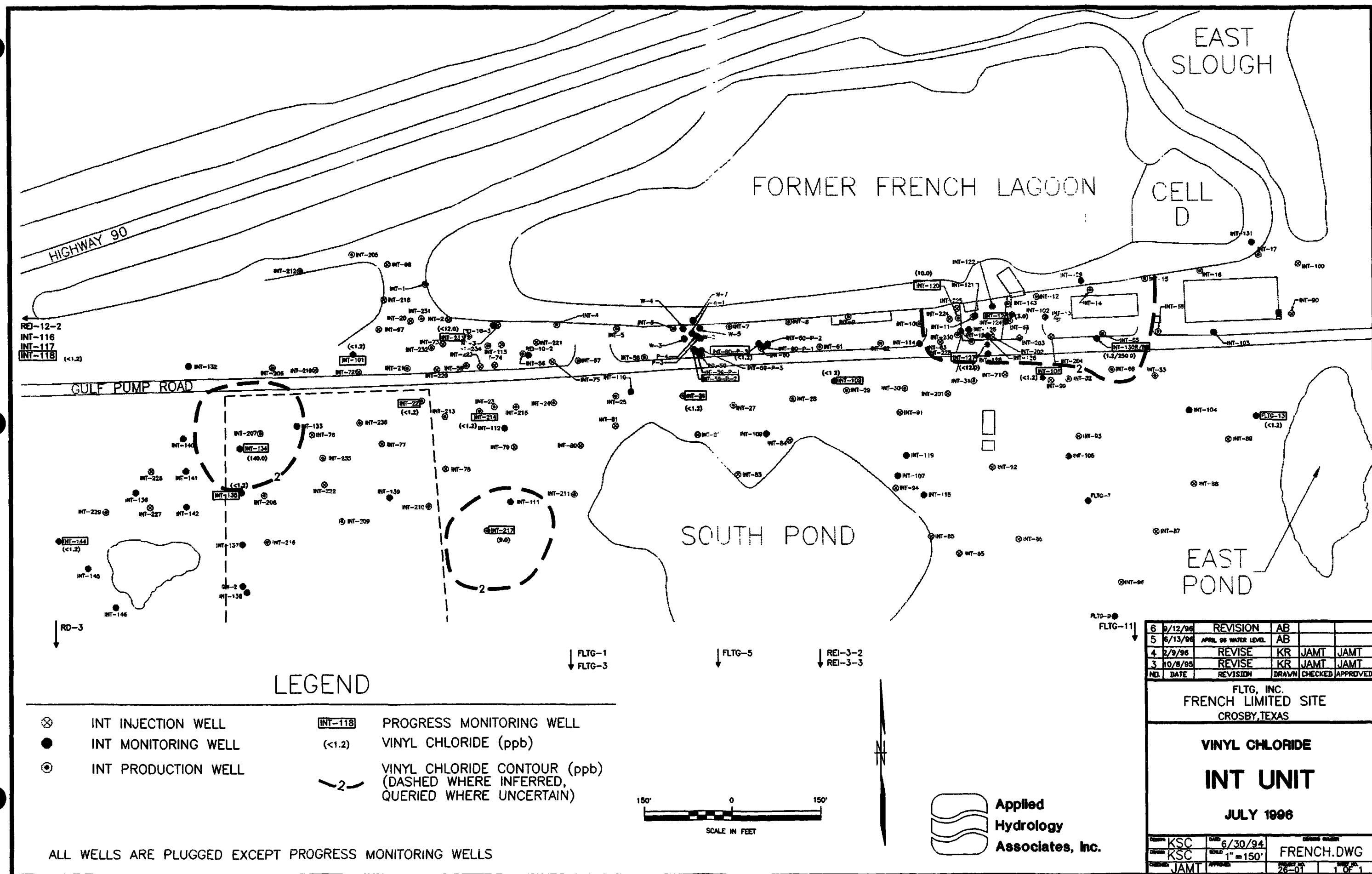
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12.0 Conclusions/Recommendations

The analytical results indicated that the affected S1 and INT groundwater does not represent a risk to the public health or the environment; FLTG continues to control all property that may have been affected by chemicals in the groundwater.

Natural attenuation progress continues on schedule; the critical progress parameters indicate that natural attenuation is expected to continue as forecast.

S1-123 showed a sharp increase in 1,2-DCA and vinyl chloride; duplicate samples will be taken from this well in September, 1996.

The comparison of micropurge versus conventional purge indicated that micropurge generates credible and generally consistent data.

It is recommended that the natural attenuation progress evaluation continue as per Chapter 12 of the Site Closure Plan.

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Attachment A

Analytical Results with Historical Data

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<u>Compound</u>	<u>Criteria</u>	<u>Units</u>	12 - 93		12 - 94		01 - 96		04 - 96		07 - 96	
Dissolved Oxygen		ppm			2.6		1.8		1.8		0.1	
Feld pH		pH un			7.8		7.4		7.4		7.0	
Total Conductivity		umhos			800.0		300.0		350.0		345.0	
Temperature		deg C			21.0		21.0		21.0		22.0	
Total Organic Carbon		ppm			8.1	<	5.0		4.4	<	1.0	
Ammonia-N		mg/L			<	0.1	<	0.1	<	0.1	<	0.1
Nitrate-N		mg/L			<	2.0		0.4	<	0.2	<	0.1
Orthophosphate-P		mg/L			<	2.0	<	0.1	<	0.1		0.1
Potassium		mg/L				0.9		1.1		1.1		1.1
Arsenic	50	ug/L			-							
Chromium	100	ug/L										
Lead	15	ug/L										
1,2-Dichloroethane	5	ug/L	<	0.8	<	0.8	<	0.8	<	0.8	<	0.8
Acetone	3500	ug/L	<	6.0	<	6.0	<	6.0	<	6.0	<	6.0
Benzene	5	ug/L	<	0.3	<	0.3	<	0.3	<	0.3	<	0.3
Toluene	1000	ug/L	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
Vinyl chloride	2	ug/L	<	1.2	<	1.2	<	1.2	<	1.2	<	1.2

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FLTG-014

Compound	Criteria	Units	12 - 93	12 - 94	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm		2.4	1.4	1.7	0.1
Field pH		pH un		7.8	7.2	7.0	7.0
Total Conductivity		umhos		1000.0	220.0	300.0	390.0
Temperature		deg C		21.0	19.0	22.0	22.0
Total Organic Carbon		ppm		8.2	<	3.0	5.9 < 1.0
Ammonia-N		mg/L		< 0.1	0.5	0.7	0.9
Nitrate-N		mg/L		< 2.0	< 0.2	< 0.2	< 0.1
Orthophosphate-P		mg/L		< 2.0	< 0.1	< 0.1	0.4
Potassium		mg/L		1.8	1.3	1.6	1.8
Arsenic	50	ug/L					
Chromium	100	ug/L					
Lead	15	ug/L					
1,2-Dichloroethane	5	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Acetone	3500	ug/L	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Benzene	5	ug/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Toluene	1000	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	2	ug/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2

+ = Compound concentration more than linear calibration range of instrument

Compound	Criteria	Units	04 - 95	10 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm		4.2	1.8	1.6	0.2
Field pH		pH un		7.1	6.9	6.9	7.2
Specific Conductivity		umhos		850.0	550.0	600.0	650.0
Temperature		deg C		24.0	23.0	21.0	22.0
Total Organic Carbon		ppm	160.0	25.0	< 0.4	4.2 <	1.0
Ammonia-N		mg/L		0.8	0.8	0.4	0.1
Nitrate-N		mg/L		16.7	2.0	0.2	0.1
Orthophosphate-P		mg/L		< 0.2	2.6 <	0.1	0.1
Potassium		mg/L		83.8	31.7	33.1	39.0
Arsenic	50	ug/L			21.0		
Chromium	100	ug/L			< 10.0		
Lead	15	ug/L			< 5.0		
1,2-Dichloroethane	5	ug/L		9.0 <	0.8 <	0.8 <	0.8
Acetone	3500	ug/L		< 6.0	< 6.0 <	6.0 <	6.0
Benzene	5	ug/L		9.0	44.0 <	0.3 <	0.3
Toluene	1000	ug/L		< 0.5	3.0 <	0.5 <	0.5
Vinyl chloride	2	ug/L		19.0	26.0 <	1.2 <	1.2

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INT-026

Compound	Criteria	Units	04 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm		2.5	1.2	0.1
Field pH		pH un		6.4	7.0	7.0
Specific Conductivity		umhos		800.0	550.0	900.0
Temperature		deg C		22.0	21.0	24.0
Total Organic Carbon		ppm	107.0	< 3.0	47.3	27.6
Ammonia-N		mg/L		1.2	1.6	2.0
Nitrate-N		mg/L		4.0 <	0.2 <	0.1
Orthophosphate-P		mg/L		586.0	37.4	35.0
Potassium		mg/L		926.0	82.4	78.0
Arsenic	50	ug/L				
Chromium	100	ug/L	-			
Lead	15	ug/L				
1,2-Dichloroethane	5	ug/L	<	0.8 <	0.8 <	0.8
Acetone	3500	ug/L	<	6.0 <	6.0 <	6.0
Benzene	5	ug/L		180.0	98.0	100.0
Toluene	1000	ug/L		7.0 <	0.5 <	0.5
Vinyl chloride	2	ug/L	<	1.2 <	1.2 <	1.2

Compound	Criteria	Units	12 - 93	12 - 94	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm			0.7	1.3	6.6
Field pH		pH un			7.0	7.0	6.9
Specific Conductivity		umhos			230.0	300.0	390.0
Temperature		deg C			23.0	21.0	24.0
Total Organic Carbon		ppm		18.4 <	5.0		
Ammonia-N		mg/L			0.4		
Nitrate-N		mg/L		<	2.0		
Orthophosphate-P		mg/L			2.6		
Potassium		mg/L					
Arsenic	50	ug/L			47.3	68.0	50.0
Chromium	100	ug/L		<	0.7 <	10.0 <	10.0
Lead	15	ug/L			< 5.0 <	5.0	5.0
1,2-Dichloroethane	5	ug/L	12.0 <		0.8		
Acetone	3500	ug/L	9713.0 <		6.0		
Benzene	5	ug/L	443.0 <		21.0		
Toluene	1000	ug/L	97.0 <		0.5		
Vinyl chloride	2	ug/L	24.0 <		1.2		

Compound	Criteria	Units	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	15.0	15.0	15.0
Field pH		pH un	6.8	7.0	7.1
Specific Conductivity		umhos	500.0	850.0	1380.0
Temperature		deg C	22.0	21.0	24.0
Total Organic Carbon		ppm	< 3.0	2.2	
Ammonia-N		mg/L	< 0.1	0.1	
Nitrate-N		mg/L	41.6	112.0	
Orthophosphate-P		mg/L	0.2	< 0.1	
Potassium		mg/L	37.9	118.0	
Arsenic		50 ug/L			
Chromium		100 ug/L			
Lead		15 ug/L			
1,2-Dichloroethane		5 ug/L	< 0.8	< 0.8	
Acetone		3500 ug/L	< 6.0	< 6.0	
Benzene		5 ug/L	< 0.3	25.0	
Toluene		1000 ug/L	< 0.5	11.0	
Vinyl chloride		2 ug/L	< 1.2	< 1.2	

Compound	Criteria	Units	08 - 95	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	0.3	0.5	1.0	1.4	0.0
Field pH		pH un	6.5	6.9	7.0	6.8	6.8
Total Conductivity		umhos	700.0	500.0	500.0	470.0	600.0
Temperature		deg C	23.0	23.0	23.0	21.0	22.0
Total Organic Carbon		ppm	86.0	84.0	< 3.0	29.4	8.8
Ammonia-N		mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrate-N		mg/L	< 0.1	< 0.2	< 0.2	< 0.2	< 0.1
Orthophosphate-P		mg/L	< 0.1	< 0.1	< 0.1	0.5	0.6
Potassium		mg/L	1.3	1.4	0.7	0.7	0.6
Arsenic		50 ug/L		115.0	96.0	60.0	60.0
Chromium		100 ug/L		< 10.0	< 10.0	< 10.0	< 10.0
Lead		15 ug/L		< 5.0	< 5.0	< 5.0	< 3.0
1,2-Dichloroethane		5 ug/L	< 2.0	< 2.6	< 0.8	< 0.8	< 0.8
Acetone		3500 ug/L	< 15.0	< 19.8	< 6.0	< 6.0	< 6.0
Benzene		5 ug/L	400.0	218.0	120.0	36.0	36.0
Toluene		1000 ug/L	< 1.3	< 1.7	< 0.5	< 0.5	< 0.5
Vinyl chloride		2 ug/L	< 3.0	< 4.0	< 1.2	< 1.2	< 1.2

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INT-106

Compound	Criteria	Units	08 - 95	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	0.3	0.4	0.4	1.4	0.1
Field pH		pH un	6.6	7.0	6.9	7.1	7.2
Specific Conductivity		umhos	950.0	550.0	550.0	600.0	900.0
Temperature		deg C	23.0	23.0	23.0	21.0	22.0
Total Organic Carbon		ppm	51.0	30.0	< 1.2	22.2	10.7
Ammonia-N		mg/L	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Nitrate-N		mg/L	0.7	13.4	3.0	< 0.2	< 0.1
Orthophosphate-P		mg/L	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Potassium		mg/L	3.0	3.1	2.7	2.5	2.4
Arsenic		50 ug/L					
Chromium		100 ug/L		-			
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	110.0	43.0	22.0	63.0	54.0
Acetone		3500 ug/L	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Benzene		5 ug/L	22.0	< 0.3	< 0.3	6.0	4.0
Toluene		1000 ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride		2 ug/L	23.0	9.0	< 1.2	< 1.2	< 1.2

+ = Compound concentration more than linear calibration range of instrument

Compound	Criteria	Units	08 - 95	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	1.5	3.8	0.6	1.5	0.1
Field pH		pH un	6.5	6.8	6.8	7.2	7.0
Specific Conductivity		umhos	480.0	410.0	390.0	450.0	750.0
Temperature		deg C	25.0	23.0	23.0	21.0	26.0
Total Organic Carbon		ppm	13.0	7.0	< 0.4	5.5 <	1.0
Ammonia-N		mg/L	< 0.1	1.0	0.2 <	0.1	0.4
Nitrate-N		mg/L	0.5 <	0.2	4.0	1.2 <	0.1
Orthophosphate-P		mg/L	1.9	0.3	0.8	0.9	1.1
Potassium		mg/L	44.1	9.8	41.4	39.3	43.0
Arsenic		50 ug/L					
Chromium		100 ug/L		-			
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	25.0 <	0.8 <	0.8 <	0.8 <	0.8
Acetone		3500 ug/L	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Benzene		5 ug/L	3.0 <	0.3 <	0.3 <	0.3 <	0.3
Toluene		1000 ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride		2 ug/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2

Compound	Criteria	Units	12 - 94	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	2.0	1.3	1.1	4.6	5.4
Field pH		pH un	8.1	8.2	8.3	8.6	9.8
Specific Conductivity		umhos	280.0	210.0	245.0	400.0	300.0
Temperature		deg C	240.0	24.0	24.0	22.0	24.0
Total Organic Carbon		ppm	5.0	2.4	< 5.0	< 2.0	< 1.0
Ammonia-N		mg/L	< 0.1	<	0.1	< 0.1	< 0.1
Nitrate-N		mg/L	< 2.0		0.2	371.0	0.4
Orthophosphate-P		mg/L	< 2.0	<	0.1	< 0.1	0.0
Potassium		mg/L	2.6		1.2	3.5	4.3
Arsenic	50	ug/L	< 3.9	<	10.0	< 10.0	< 10.0
Chromium	100	ug/L	5.9	<	10.0	< 10.0	< 10.0
Lead	15	ug/L	< 2.5	<	5.0	< 5.0	< 3.0
1,2-Dichloroethane	5	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Acetone	3500	ug/L	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Benzene	5	ug/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Toluene	1000	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 2.0
Vinyl chloride	2	ug/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2

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French Limited Project

INT-120

Compound	Criteria	Units	08 - 95	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	15.0	3.8	15.0	1.6	0.1
Field pH		pH un		7.3	7.2	7.1	7.9
Total Conductivity		umhos		1300.0	900.0	750.0	1350.0
Temperature		deg C	23.0	23.0	24.0	22.0	23.0
Total Organic Carbon		ppm	32.0	18.0	< 150.0	4.4 <	1.0
Ammonia-N		mg/L		< 0.1	0.9	0.9	0.3
Nitrate-N		mg/L		329.0	36.1	23.3	66.0
Orthophosphate-P		mg/L		37.4	470.0	21.6	10.0
Potassium		mg/L		94.1	834.0	122.0	130.0
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L		1400.0	8400.0	21.0	87.0
Acetone		3500 ug/L		< 120.0	< 300.0	< 15.0 <	6.0
Benzene		5 ug/L		< 6.0	< 15.0	< 5.0	3.0
Toluene		1000 ug/L		< 10.0	< 25.0	< 1.3 <	0.5
Vinyl chloride		2 ug/L		< 24.0	< 260.0	< 3.0	10.0

+ = Compound concentration more than linear calibration range of instrument

Compound	Criteria	Units	08 - 95	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	15.0	15.0	15.0	6.4	0.8
Field pH		pH un	9.1	7.2	8.6	8.2	9.7
Total Conductivity		umhos	700.0	495.0	500.0	500.0	800.0
Temperature		deg C	26.0	23.0	24.0	22.0	23.0
Total Organic Carbon		ppm	6.0	8.0	< 3.0	4.2 <	1.0
Ammonia-N		mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nitrate-N		mg/L	40.5	119.0	25.6	23.2	21.0
Orthophosphate-P		mg/L	< 0.1	4.1	0.7	0.4	0.3
Potassium		mg/L	75.0	68.4	73.6	58.9	62.0
Arsenic		50 ug/L					
Chromium		100 ug/L		-			
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	610.0	580.0	120.0	210.0	270.0
Acetone		3500 ug/L	38.0 <	30.0	20.0 <	12.0 <	6.0
Benzene		5 ug/L	12.0 <	1.5 <	0.3 <	0.6	2.0
Toluene		1000 ug/L	3.0 <	2.5 <	0.5 <	1.0 <	0.5
Vinyl chloride		2 ug/L	300.0	77.0	15.0 <	2.4	3.0

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French Limited Project

INT-127

Compound	Criteria	Units	08 - 95	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	3.2	1.7	2.0	0.8	0.1
Field pH		pH un	6.5	6.8	6.3	6.7	6.7
Total Conductivity		umhos	1190.0	700.0	750.0	850.0	1650.0
Temperature		deg C	24.0	23.0	24.0	22.0	23.0
Total Organic Carbon		ppm	124.0	90.0	77.7	70.0	44.0
Ammonia-N		mg/L	< 0.1	0.1	0.1	0.7	0.9
Nitrate-N		mg/L	5.0	24.1	4.0	47.9 <	0.1
Orthophosphate-P		mg/L	< 0.1	0.2 <	0.1 <	0.1	0.0
Potassium		mg/L	8.6	11.1	6.0	10.9	14.0
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 8.0
Acetone		3500 ug/L	740.0	84.0	120.0	< 6.0 <	60.0
Benzene		5 ug/L	220.0	140.0	150.0	160.0	170.0
Toluene		1000 ug/L	63.0	36.0	37.0	34.0	43.0
Vinyl chloride		2 ug/L	20.0 <	1.2 <	1.2 <	1.2 <	12.0

Compound	Criteria	Units	04 - 96	07 - 96		
Dissolved Oxygen		ppm	1.7	1.4		
Field pH		pH un	7.4	7.5		
Specific Conductivity		umhos	850.0	900.0		
Temperature		deg C	26.0	23.0		
Total Organic Carbon		ppm	12.7	2.9		
Ammonia-N		mg/L	< 0.1	0.2		
Nitrate-N		mg/L	30.6	32.0		
Orthophosphate-P		mg/L	< 0.1	0.1		
Potassium		mg/L	1.5	2.4		
Arsenic		50 ug/L				
Chromium		100 ug/L				
Lead		15 ug/L				
1,2-Dichloroethane		5 ug/L	500.0	450.0		
Acetone		3500 ug/L	< 1000.0	< 6.0		
Benzene		5 ug/L	< 500.0	27.0		
Toluene		1000 ug/L	< 500.0	5.0		
Vinyl chloride		2 ug/L	< 1000.0	< 1.2		

Compound	Criteria	Units	04 - 96	07 - 96			
Dissolved Oxygen		ppm	2.1	0.1			
Field pH		pH un	7.2	7.2			
Specific Conductivity		umhos	900.0	1050.0			
Temperature		deg C	25.0	23.0			
Total Organic Carbon		ppm	17.4	10.0			
Ammonia-N		mg/L	< 0.1	< 0.1			
Nitrate-N		mg/L	23.2	20.0			
Orthophosphate-P		mg/L	< 0.1	0.1			
Potassium		mg/L	1.8	3.3			
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	1800.0	290.0			
Acetone		3500 ug/L	< 200.0	< 6.0			
Benzene		5 ug/L	< 100.0	21.0			
Toluene		1000 ug/L	< 100.0	< 0.5			
Vinyl chloride		2 ug/L	180.0	250.0			

032320
French Limited Project

INT-134

Compound	Criteria	Units	07 - 95	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	1.8	14.6	0.7	1.2	0.1
Field pH		pH un	7.7	6.8	7.4	7.4	7.4
Total Dissolved Solids		umhos	490.0	370.0	500.0	525.0	1000.0
Temperature		deg C	23.0	24.0	22.0	22.0	22.0
Total Organic Carbon		ppm	5.0	8.0	< 1.0	21.6	15.0
Ammonia-N		mg/L	< 0.1	< 0.1	0.3	0.7	0.5
Nitrate-N		mg/L	< 0.1	21.3	1.8	0.5	0.8
Orthophosphate-P		mg/L	< 0.1	0.2	18.0	8.7	4.0
Potassium		mg/L	1.0	1.4	43.1	26.4	16.0
Arsenic		50 ug/L					
Chromium		100 ug/L		-			
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	28.0	78.0	68.0	67.0	85.0
Acetone		3500 ug/L	< 6.0	< 15.0	< 12.0	< 6.0	< 6.0
Benzene		5 ug/L	< 0.3	26.0	34.0	27.0	54.0
Toluene		1000 ug/L	< 0.5	< 1.3	< 1.0	< 0.5	< 0.5
Vinyl chloride		2 ug/L	83.0	198.0	190.0	19.0	140.0

+ = Compound concentration more than linear calibration range of instrument

Compound	Criteria	Units	08 - 95	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	1.4	3.8	1.0	1.0	0.2
Field pH		pH un	6.8	7.0	7.0	6.9	6.8
Total Conductivity		umhos	400.0	325.0	440.0	500.0	820.0
Temperature		deg C	23.0	23.0	23.0	23.0	22.0
Total Organic Carbon		ppm	22.0	10.0	< 3.0	14.3	8.1
Ammonia-N		mg/L		< 0.1	0.1	0.1	0.1
Nitrate-N		mg/L		0.5	2.2	< 0.2	< 0.1
Orthophosphate-P		mg/L		< 0.1	1.0	< 0.1	0.0
Potassium		mg/L		1.2	1.2	1.2	1.2
Arsenic	50	ug/L			< 10.0	20.0	22.0
Chromium	100	ug/L	-		< 10.0	< 10.0	< 10.0
Lead	15	ug/L			< 5.0	< 5.0	< 3.0
1,2-Dichloroethane	5	ug/L		29.0	15.0	< 0.8	< 0.8
Acetone	3500	ug/L		< 12.0	< 6.0	< 6.0	< 6.0
Benzene	5	ug/L		< 0.6	< 0.3	< 0.3	< 0.3
Toluene	1000	ug/L		< 1.0	< 0.5	< 0.5	< 0.5
Vinyl chloride	2	ug/L		146.0	66.0	< 1.2	< 1.2

Compound	Criteria	Units	08 - 95	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	1.0	0.7	0.7	2.4	1.8
Field pH		pH un	8.2	8.8	8.6	8.8	9.7
Total Conductivity		umhos	350.0	300.0	310.0	325.0	370.0
Temperature		deg C	22.0	21.0	23.0	21.0	21.0
Total Organic Carbon		ppm	12.0	1.5	< 3.0	< 2.0	< 1.0
Ammonia-N		mg/L	< 0.1	< 0.1	0.2	< 0.1	< 0.1
Nitrate-N		mg/L	< 0.1	< 0.2	< 0.2	< 0.2	< 0.1
Orthophosphate-P		mg/L	< 0.1	< 0.2	< 0.1	< 0.1	< 0.1
Potassium		mg/L	1.2	1.2	0.9	1.0	1.0
Arsenic	50	ug/L			< 10.0	20.0	17.0
Chromium	100	ug/L			< 10.0	< 10.0	< 10.0
Lead	15	ug/L			< 5.0	< 5.0	< 3.0
1,2-Dichloroethane	5	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Acetone	3500	ug/L	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Benzene	5	ug/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Toluene	1000	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	2	ug/L	< 1.2	< 3.0	< 1.2	< 1.2	< 1.2

U32323

French Limited Project

INT-214

Compound	Criteria	Units	02 - 95	01 - 96	04 - 96	07 - 96	
Dissolved Oxygen		ppm		1.0	1.4	0.1	
Field pH		pH un		6.9	7.5	7.2	
Specific Conductivity		umhos		700.0	575.0	750.0	
Temperature		deg C		23.0	21.0	22.0	
Total Organic Carbon		ppm	<	0.7	3.0	<	1.0
Ammonia-N		mg/L		0.2	<	0.1	< 0.1
Nitrate-N		mg/L		5.5	1.5	<	0.1
Orthophosphate-P		mg/L		60.6	6.0	1.7	
Potassium		mg/L		188.0	88.9	70.0	
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L		7.0 <	0.8 <	0.8 <	0.8
Acetone		3500 ug/L	<	6.0 <	6.0 <	6.0 <	6.0
Benzene		5 ug/L		19.0 <	0.3 <	0.3 <	0.3
Toluene		1000 ug/L	<	0.5 <	0.5 <	0.5 <	0.5
Vinyl chloride		2 ug/L		61.0 <	1.2 <	1.2 <	1.2

032324
French Limited Project

INT-217

Compound	Criteria	Units	10 - 95	11 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	4.6	0.4	0.4	0.9	0.1
Field pH		pH un	6.7	6.5	6.9	6.7	6.7
Specific Conductivity		umhos	1150.0	750.0	1000.0	805.0	1300.0
Temperature		deg C	24.0	23.0	23.0	21.0	22.0
Total Organic Carbon		ppm	58.0	74.0	< 2.5	56.8	48.4
Ammonia-N		mg/L	0.6	< 0.1	1.1	0.4	0.1
Nitrate-N		mg/L	< 0.2	0.8	0.5 <	0.2 <	0.1
Orthophosphate-P		mg/L	< 0.2	< 0.2	206.0	5.9	1.0
Potassium		mg/L	1.5	1.3	385.0	19.6	2.1
Arsenic		50 ug/L					
Chromium		100 ug/L		-			
Lead		15 ug/L					
1,2-Dichloroethene		5 ug/L	30.0	< 0.8	< 0.8	< 0.8	< 0.8
Acetone		3500 ug/L	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Benzene		5 ug/L	24.0	14.0	22.0	51.0	16.0
Toluene		1000 ug/L	< 0.5	< 0.5	< 0.5	< 12.0	< 0.5
Vinyl chloride		2 ug/L	63.0	41.0	51.0	8.0	9.0

+ = Compound concentration more than linear calibration range of instrument

Compound	Criteria	Units	09 - 95	11 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	1.2	0.3		0.7	0.1
Field pH		pH un	6.1	6.4	6.8	6.8	6.7
Specific Conductivity		umhos	3000.0	4000.0	750.0	1200.0	2050.0
Temperature		deg C	25.0	21.0	24.0	22.0	22.0
Total Organic Carbon		ppm	3130.0	2850.0	< 1800.0	264.0	100.0
Ammonia-N		mg/L	< 0.1	0.4	2.6	1.2	7.8
Nitrate-N		mg/L	0.3	0.3	< 0.2	< 0.2	< 0.1
Orthophosphate-P		mg/L	< 0.2	< 0.2	< 0.1	5.5	5.5
Potassium		mg/L	4.7	2.8	16.2	10.5	13.0
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	< 400.0	< 80.0	< 160.0	< 2.7	< 8.0
Acetone		3500 ug/L	76000.0	7600.0	27000.0	< 19.8	< 60.0
Benzene		5 ug/L	2300.0	1400.0	740.0	370.0	350.0
Toluene		1000 ug/L	< 250.0	< 50.0	< 100.0	140.0	100.0
Vinyl chloride		2 ug/L	8500.0	3000.0	< 240.0	< 4.0	< 12.0

Compound	Criteria	Units	07 - 96			
Dissolved Oxygen		ppm				
Field pH		pH un				
Specific Conductivity		umhos				
Temperature		deg C				
Total Organic Carbon		ppm				
Ammonia-N		mg/L				
Nitrate-N		mg/L				
Orthophosphate-P		mg/L				
Potassium		mg/L	2.6			
Arsenic	50	ug/L	32.0			
Chromium	100	ug/L	< 10.0			
Lead	15	ug/L	< 3.0			
1,2-Dichloroethane		5 ug/L				
Acetone		3500 ug/L				
Benzene		5 ug/L				
Toluene		1000 ug/L				
Vinyl chloride		2 ug/L				

Compound	Criteria	Units	07 - 96				
Dissolved Oxygen		ppm					
Field pH		pH un					
Specific Conductivity		umhos					
Temperature		deg C					
Total Organic Carbon		ppm	<	1.0			
Ammonia-N		mg/L	<	0.1			
Nitrate-N		mg/L		100.0			
Orthophosphate-P		mg/L		0.1			
Potassium		mg/L		120.0			
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	<	0.8			
Acetone		3500 ug/L	<	6.0			
Benzene		5 ug/L	<	0.3			
Toluene		1000 ug/L	<	0.5			
Vinyl chloride		2 ug/L	<	1.2			

032328

French Limited Project

S1-031

Compound	Criteria	Units	09 - 94	08 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm		15.0	0.6	1.5	0.0
Field pH		pH un		6.9	7.2	7.5	7.4
Specific Conductivity		umhos		700.0	600.0	300.0	450.0
Temperature		deg C		24.0	23.0	21.0	23.0
Total Organic Carbon		ppm		15.0	< 9.0	4.1 <	1.0
Ammonia-N		mg/L			0.2	0.6	0.3
Nitrate-N		mg/L			26.5	2.8	0.2
Orthophosphate-P		mg/L			5.5	1.7	0.5
Potassium		mg/L			144.0	93.8	32.0
Arsenic	50	ug/L			< 10.0	< 10.0	< 10.0
Chromium	100	ug/L			13.0	< 10.0	< 10.0
Lead	15	ug/L			5.0	< 5.0	< 3.0
1,2-Dichloroethane	5	ug/L	< 0.8		< 0.8	< 0.8	< 0.8
Acetone	3500	ug/L	< 6.0		< 6.0	< 6.0	< 6.0
Benzene	5	ug/L	< 0.3		< 0.3	< 0.3	< 0.3
Toluene	1000	ug/L	< 0.5		< 0.5	< 0.5	< 0.5
Vinyl chloride	2	ug/L	< 1.2		< 1.2	< 1.2	< 1.2

Compound	Criteria	Units	03 - 94	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm		0.4	1.6	0.2
Field pH		pH un		6.5	7.2	6.7
Total Conductivity		umhos		495.0	450.0	700.0
Temperature		deg C		23.0	20.0	22.0
Total Organic Carbon		ppm	<	3.0	3.5	< 1.0
Ammonia-N		mg/L	<	0.1	< 0.1	< 0.1
Nitrate-N		mg/L		131.0	288.0	0.8
Orthophosphate-P		mg/L		1.2	0.6	0.5
Potassium		mg/L		68.1	59.5	88.0
Arsenic	50	ug/L	<	10.0	< 10.0	< 10.0
Chromium	100	ug/L	<	10.0	< 10.0	< 10.0
Lead	15	ug/L	<	5.0	< 5.0	< 3.0
1,2-Dichloroethane	5	ug/L	< 0.8	< 0.8	< 0.8	< 0.8
Acetone	3500	ug/L	< 6.0	< 6.0	< 6.0	< 6.0
Benzene	5	ug/L	< 0.3	< 0.3	< 0.3	< 0.3
Toluene	1000	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	2	ug/L	< 1.2	< 1.2	< 1.2	< 1.2

032330

French Limited Project

S1-051-P-3

Compound	Criteria	Units	01 - 96	04 - 96	07 - 96	
Dissolved Oxygen		ppm	0.6	1.8	1.7	
Field pH		pH un	6.9	6.9	6.9	
Specific Conductivity		umhos	500.0	450.0	820.0	
Temperature		deg C	21.0	20.0	23.0	
Total Organic Carbon		ppm	< 3.0	11.3	7.8	
Ammonia-N		mg/L	0.8	0.9	1.0	
Nitrate-N		mg/L	7.4	4.2	3.8	
Orthophosphate-P		mg/L	< 0.1	< 0.1	0.1	
Potassium		mg/L	37.9	54.8	81.0	
Arsenic	50	ug/L				
Chromium	100	ug/L		-		
Lead	15	ug/L				
1,2-Dichloroethane	5	ug/L	< 0.8	< 0.8	< 0.8	
Acetone	3500	ug/L	< 6.0	< 6.0	< 6.0	
Benzene	5	ug/L	< 0.3	< 0.3	< 0.3	
Toluene	1000	ug/L	< 0.5	< 0.5	< 0.5	
Vinyl chloride	2	ug/L	< 1.2	< 1.2	< 1.2	

U32331
French Limited Project

S1-106A

Compound	Criteria	Units	11 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	15.0	15.0	12.6	7.6
Field pH		pH un	6.7	6.7	7.5	7.3
Specific Conductivity		umhos	470.0	450.0	400.0	800.0
Temperature		deg C	25.0	24.0	21.0	22.0
Total Organic Carbon		ppm	3.0	< 3.0	< 2.0	< 1.0
Ammonia-N		mg/L	< 0.1	< 0.1	0.2	< 0.1
Nitrate-N		mg/L	21.7	92.3	16.6	23.3
Orthophosphate-P		mg/L	< 0.2	0.7	0.6	1.0
Potassium		mg/L	35.0	47.0	43.1	52.0
Arsenic		50 ug/L				
Chromium		100 ug/L				
Lead		15 ug/L				
1,2-Dichloroethane		5 ug/L	< 0.8	< 0.8	< 0.8	7.0
Acetone		3500 ug/L	< 6.0	< 6.0	< 6.0	< 6.0
Benzene		5 ug/L	< 0.3	< 0.3	< 0.3	< 0.3
Toluene		1000 ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride		2 ug/L	< 1.2	< 1.2	< 1.2	< 1.2

Compound	Criteria	Units	07 - 96				
Dissolved Oxygen		ppm	0.1				
Field pH		pH un	6.8				
Specific Conductivity		umhos	1100.0				
Temperature		deg C	21.0				
Total Organic Carbon		ppm	9.0				
Ammonia-N		mg/L	3.2				
Nitrate-N		mg/L	< 0.1				
Orthophosphate-P		mg/L	16.0				
Potassium		mg/L	53.0				
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	< 0.8				
Acetone		3500 ug/L	< 6.0				
Benzene		5 ug/L	36.0				
Toluene		1000 ug/L	< 0.5				
Vinyl chloride		2 ug/L	< 1.2				

032233
French Limited Project

S1-108A

Compound	Criteria	Units	11 - 95	01 - 96	04 - 96	7 - 96
Dissolved Oxygen		ppm	0.5	2.0	1.8	0.1
Field pH		pH un	6.0	6.1	7.1	6.8
Electric Conductivity		umhos	425.0	470.0	400.0	650.0
Temperature		deg C	25.0	22.0	20.0	25.0
Total Organic Carbon		ppm	8.0	51.6	3.8	1.1
Ammonia-N		mg/L	0.8	0.2	<	0.1
Nitrate-N		mg/L	5.8	51.6	4.2	0.5
Orthophosphate-P		mg/L	<	0.2	0.3	0.1
Potassium		mg/L	17.9	28.2	34.2	38.0
Arsenic		50 ug/L				
Chromium		100 ug/L				
Lead		15 ug/L				
1,2-Dichloroethane		5 ug/L	10.0	<	0.8	<
Acetone		3500 ug/L	<	6.0	<	6.0
Benzene		5 ug/L	<	0.3	<	0.3
Toluene		1000 ug/L	<	0.5	<	0.5
Vinyl chloride		2 ug/L	<	1.2	<	1.2

+ = Compound concentration more than linear calibration range of instrument

032334
French Limited Project

S1-111

Compound	Criteria	Units	12 - 94	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	15.0	15.0	15.0	15.0	15.0
Field pH		pH un	9.3	7.8	7.7	7.2	7.5
Total Conductivity		umhos	800.0	525.0	900.0	600.0	1050.0
Temperature		deg C	24.0	21.0	22.0	21.0	22.0
Total Organic Carbon		ppm	3.4	6.7	9.0		
Ammonia-N		mg/L	<	0.1	<	0.1	
Nitrate-N		mg/L	<	2.0	231.0		
Orthophosphate-P		mg/L	<	2.0	18.5		
Potassium		mg/L	155.0	126.0			170.0
Arsenic	50	ug/L	26.3		< 10.0	< 10.0	< 10.0
Chromium	100	ug/L	132.0	-	12.0 <	10.0 <	10.0
Lead	15	ug/L	98.4		9.0 <	5.0 <	3.0
1,2-Dichloroethane	5	ug/L	< 0.8	< 0.8			
Acetone	3500	ug/L	< 6.0	< 6.0			
Benzene	5	ug/L	< 0.3	< 0.3			
Toluene	1000	ug/L	< 0.5	< 0.5			
Vinyl chloride	2	ug/L	< 1.2	< 1.2			

032335
French Limited Project

S1-118

Compound	Criteria	Units	12 - 94	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	3.4	2.2	1.6	1.6	0.8
Field pH		pH un	6.6	8.0	6.7	6.7	6.3
Specific Conductivity		umhos	308.0	470.0	200.0	500.0	310.0
Temperature		deg C	24.0	21.0	24.0	21.0	26.0
Total Organic Carbon		ppm	9.4	9.0	< 0.5	6.2	6.1
Ammonia-N		mg/L	0.1		< 0.1	0.1	0.2
Nitrate-N		mg/L	< 2.0		< 0.2	< 0.2	< 0.1
Orthophosphate-P		mg/L	< 2.0		< 0.1	< 0.1	0.1
Potassium		mg/L	3.6		2.7	1.7	1.5
Arsenic	50	ug/L	5.6		< 10.0	< 10.0	< 10.0
Chromium	100	ug/L	5.3		< 10.0	< 10.0	< 10.0
Lead	15	ug/L	6.3		< 5.0	< 5.0	< 3.0
1,2-Dichloroethane	5	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Acetone	3500	ug/L	22.0	< 6.0	< 6.0	< 6.0	< 6.0
Benzene	5	ug/L	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Toluene	1000	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	2	ug/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2

U32336
French Limited Project

S1-121

Compound	Criteria	Units	09 - 95	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	15.0	4.4	10.2	1.7	0.1
Field pH		pH un	6.5	6.7	6.8	6.8	6.9
Specific Conductivity		umhos	650.0	700.0	750.0	750.0	1300.0
Temperature		deg C	25.0	25.0	24.0	23.0	23.0
Total Organic Carbon		ppm	6.6	35.0	108.0	14.6	5.2
Ammonia-N		mg/L	< 0.1	0.1	0.1	0.7	0.6
Nitrate-N		mg/L	< 0.2	< 0.2	56.2	< 0.2	0.8
Orthophosphate-P		mg/L	< 0.2	< 0.1	< 0.1	< 0.1	0.0
Potassium		mg/L	2.8	4.8	108.0	19.0	43.0
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	4.0	48.0	40.0	24.0	8.0
Acetone		3500 ug/L	< 6.0	324.0	< 6.0	< 6.0	< 6.0
Benzene		5 ug/L	< 0.3	57.0	< 0.3	5.0	4.0
Toluene		1000 ug/L	< 0.5	24.0	< 0.5	< 0.5	< 0.5
Vinyl chloride		2 ug/L	< 1.2	311.0	17.0	66.0	8.0

+ = Compound concentration more than linear calibration range of instrument

Compound	Criteria	Units	08 - 95	12 - 95	01 - 96	04 - 96	07 - 96
Dissolved Oxygen		ppm	6.1	14.6	3.2	2.2	5.0
Field pH		pH un	6.8	6.8	7.1	7.0	6.8
Specific Conductivity		umhos	550.0	370.0	500.0	550.0	1130.0
Temperature		deg C	24.0	24.0	25.0	22.0	24.0
Total Organic Carbon		ppm	15.0	8.0	0.4	4.8	9.3
Ammonia-N		mg/L	0.4	<	0.1	0.1	0.3
Nitrate-N		mg/L	<	0.1	7.4	2.4	0.2 < 0.1
Orthophosphate-P		mg/L	<	0.1	0.8	0.4	0.3
Potassium		mg/L	24.2	5.3	8.2	17.0	28.0
Arsenic		50 ug/L					
Chromium		100 ug/L					
Lead		15 ug/L					
1,2-Dichloroethane		5 ug/L	46.0	18.0	180.0	680.0	19000.0
Acetone		3500 ug/L	19.0	<	12.0	4.0	60.0 < 60.0
Benzene		5 ug/L	<	0.3	<	0.6	< 3.0 < 3.0
Toluene		1000 ug/L	<	0.5	<	1.0	< 0.5 < 5.0
Vinyl chloride		2 ug/L	<	1.2	<	2.4	4.0 < 12.0
							2600.0

Compound	Criteria	Units	05 - 95	06 - 95	01 - 96	-	4 - 96	07 - 96
Dissolved Oxygen		ppm	5.0	9.4	9.0		1.4	0.1
Field pH		pH un	7.0	6.9	7.2		7.5	7.0
Specific Conductivity		umhos	1000.0	1200.0	600.0		550.0	1300.0
Temperature		deg C	24.0	24.0	24.0		22.0	23.0
Total Organic Carbon		ppm		<	3.0		20.8	17.0
Ammonia-N		mg/L	0.1		< 0.1		1.8	2.2
Nitrate-N		mg/L	5.7		8.6		306.0	< 0.1
Orthophosphate-P		mg/L	< 0.7		< 0.1	<	0.1	0.0
Potassium		mg/L	14.0		62.6		91.9	94.0
Arsenic		50 ug/L						
Chromium		100 ug/L						
Lead		15 ug/L						
1,2-Dichloroethane		5 ug/L	< 80.0		< 0.8	<	0.8	6.0
Acetone		3500 ug/L	10000.0		< 6.0	<	6.0	17.0
Benzene		5 ug/L	< 30.0		8.0		21.0	31.0
Toluene		1000 ug/L	< 50.0		3.0	< 0.5	< 0.5	0.5
Vinyl chloride		2 ug/L	< 120.0		< 1.2	<	1.2	1.2

U32339
French Limited Project

S1-135

<u>Compound</u>	<u>Criteria</u>	<u>Units</u>	<u>12 - 94</u>	<u>12 - 95</u>	<u>01 - 96</u>	<u>04 - 96</u>	<u>07 - 96</u>
Dissolved Oxygen		ppm	0.8	0.6	1.6	1.7	0.1
Field pH		pH un	6.2	6.2	6.5	6.6	6.3
Specific Conductivity		umhos	455.0	420.0	350.0	300.0	450.0
Temperature		deg C	24.0	25.0	23.0	21.0	23.0
Total Organic Carbon		ppm	18.1	52.0	< 0.5	16.4	16.0
Ammonia-N		mg/L	0.4		0.9	0.7	0.4
Nitrate-N		mg/L	< 2.0		< 0.2	< 0.2	< 0.1
Orthophosphate-P		mg/L	< 2.0		< 0.1	< 0.1	0.2
Potassium		mg/L	4.0		7.3	5.6	3.8
Arsenic	50	ug/L	209.0	195.0	169.0	40.0	62.0
Chromium	100	ug/L	4.9	-	13.0	13.0	< 10.0
Lead	15	ug/L	< 2.5	< 5.0	5.0	< 5.0	5.1
1,2-Dichloroethane	5	ug/L	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Acetone	3500	ug/L	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Benzene	5	ug/L	< 0.3	< 0.3	< 0.3	< 3.0	< 0.3
Toluene	1000	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	2	ug/L	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2

+ = Compound concentration more than linear calibration range of instrument

032340

**Natural Attenuation Progress and
Site Status Report**

**French Limited Project
3rd Quarter, 1996**

Attachment B

Field Duplicate Precision Summaries

032341

GROUNDWATER MONITORING

July, 1996

French Ltd. Project

Field Duplicate Precision Summary

Compound	Units	INT-022	INT-022 Dup	RPD
1,1,1-TRICHLOROETHANE	UG/L	< 5	< 5	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 5	< 5	
1,1,2-TRICHLOROETHANE	UG/L	< 5	< 5	
1,1-DICHLOROETHANE	UG/L	< 5	< 5	
1,1-DICHLOROETHENE	UG/L	< 5	< 5	
1,2-DICHLOROETHANE	UG/L	< 5	< 5	
1,2-DICHLOROPROPANE	UG/L	< 5	< 5	
2-BUTANONE	UG/L	< 10	< 10	
2-HEXANONE	UG/L	< 10	< 10	
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	
ACETONE	UG/L	< 10	< 10	
AMMONIA	MG/L	0.13	0.13	0%
BENZENE	UG/L	< 5	< 5	
BROMODICHLOROMETHANE	UG/L	< 10	< 10	
BROMOFORM	UG/L	< 5	< 5	
BROMOMETHANE	UG/L	< 10	< 10	
CARBON DISULFIDE	UG/L	< 5	< 5	
CARBON TETRACHLORIDE	UG/L	< 5	< 5	
CHLOROBENZENE	UG/L	< 5	< 5	
CHLOROETHANE	UG/L	< 10	< 10	
CHLOROFORM	UG/L	< 5	< 5	
CHLOROMETHANE	UG/L	< 10	< 10	
CIS-1,2-DICHLOROETHENE	UG/L	< 5	< 5	
CIS-1,3-DICHLOROPROPENE	UG/L	< 5	< 5	
DIBROMOCHLOROMETHANE	UG/L	< 5	< 5	
ETHYLBENZENE	UG/L	< 5	< 5	
METHYLENE CHLORIDE	UG/L	< 5	< 5	
NITROGEN, NITRATE	MG/L	0.07	0.07	0%
ORTHO PHOSPHATE	MG/L	0.08	0.1	14%
POTASSIUM - TOTAL	UG/L	39000	39000	0%
STYRENE	UG/L	< 5	< 5	
TETRACHLOROETHENE	UG/L	< 5	< 5	
TOLUENE	UG/L	< 5	< 5	
TOTAL ORGANIC CARBON	MG/L	< 1	< 1	
TOTAL XYLEMES	UG/L	< 5	< 5	
TRANS-1,2-DICHLOROETHENE	UG/L	< 5	< 5	
TRANS-1,3-DICHLOROPROPENE	UG/L	< 5	< 5	
TRICHLOROETHENE	UG/L	< 5	< 5	
VINYL CHLORIDE	UG/L	< 10	< 10	

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French Ltd. Project

Field Duplicate Precision Summary

Compound	Units	INT-120	INT-120 Dup	RPD
1,1,1-TRICHLOROETHANE	UG/L	< 5	< 5	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 5	< 5	
1,1,2-TRICHLOROETHANE	UG/L	< 5	< 5	
1,1-DICHLOROETHANE	UG/L	25	27	5%
1,1-DICHLOROETHENE	UG/L	< 5	< 5	
1,2-DICHLOROETHANE	UG/L	87	100	9%
1,2-DICHLOROPROPANE	UG/L	< 5	< 5	
2-BUTANONE	UG/L	< 10	< 10	
2-HEXANONE	UG/L	< 10	< 10	
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	
ACETONE	UG/L	< 10	< 10	
AMMONIA	MG/L	0.25	0.26	3%
BENZENE	UG/L	3	4	18%
BROMODICHLOROMETHANE	UG/L	< 10	< 10	
BROMOFORM	UG/L	< 5	< 5	
BROMOMETHANE	UG/L	< 10	< 10	
CARBON DISULFIDE	UG/L	< 5	< 5	
CARBON TETRACHLORIDE	UG/L	< 5	< 5	
CHLOROBENZENE	UG/L	< 5	< 5	
CHLOROETHANE	UG/L	< 10	< 10	
CHLOROFORM	UG/L	180	210	10%
CHLOROMETHANE	UG/L	< 10	< 10	
CIS-1,2-DICHLOROETHENE	UG/L	76	85	7%
CIS-1,3-DICHLOROPROPENE	UG/L	< 5	< 5	
DIBROMOCHLOROMETHANE	UG/L	< 5	< 5	
ETHYLBENZENE	UG/L	< 5	< 5	
METHYLENE CHLORIDE	UG/L	4	3	20%
NITROGEN, NITRATE	MG/L	66	68	2%
ORTHO PHOSPHATE	MG/L	10	10	0%
POTASSIUM - TOTAL	UG/L	130000	140000	5%
STYRENE	UG/L	< 5	< 5	
TETRACHLOROETHENE	UG/L	13	14	5%
TOLUENE	UG/L	< 5	< 5	
TOTAL ORGANIC CARBON	MG/L	< 1	< 1	
TOTAL XYLEMES	UG/L	< 5	< 5	
TRANS-1,2-DICHLOROETHENE	UG/L	< 5	< 5	
TRANS-1,3-DICHLOROPROPENE	UG/L	< 5	< 5	
TRICHLOROETHENE	UG/L	13	15	9%
VINYL CHLORIDE	UG/L	10	10	0%

RPD = Relative percent difference

RPD can only be calculated if both samples have detectable concentrations of analyte

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GROUNDWATER MONITORING

July, 1996

French Ltd. Project

Field Duplicate Precision Summary

Compound	Units	INT-123	INT-123 Dup	RPD
1,1,1-TRICHLOROETHANE	UG/L	< 5	< 5	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 5	< 5	
1,1,2-TRICHLOROETHANE	UG/L	< 5	< 5	
1,1-DICHLOROETHANE	UG/L	60	55	6%
1,1-DICHLOROETHENE	UG/L	< 5	< 5	
1,2-DICHLOROETHANE	UG/L	270	270	0%
1,2-DICHLOROPROPANE	UG/L	< 5	< 5	
2-BUTANONE	UG/L	< 10	< 10	
2-HEXANONE	UG/L	< 10	< 10	
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	
ACETONE	UG/L	< 10	< 10	
AMMONIA	MG/L	< 0.1	< 0.1	
BENZENE	UG/L	2	2	0%
BROMODICHLOROMETHANE	UG/L	< 10	< 10	
BROMOFORM	UG/L	< 5	< 5	
BROMOMETHANE	UG/L	< 10	< 10	
CARBON DISULFIDE	UG/L	< 5	< 5	
CARBON TETRACHLORIDE	UG/L	< 5	< 5	
CHLOROBENZENE	UG/L	< 5	< 5	
CHLOROETHANE	UG/L	< 10	< 10	
CHLOROFORM	UG/L	290	280	2%
CHLOROMETHANE	UG/L	< 10	< 10	
CIS-1,2-DICHLOROETHENE	UG/L	< 5	< 5	
CIS-1,3-DICHLOROPROPENE	UG/L	< 5	< 5	
DIBROMOCHLOROMETHANE	UG/L	< 5	< 5	
ETHYLBENZENE	UG/L	< 5	< 5	
METHYLENE CHLORIDE	UG/L	5	7	21%
NITROGEN, NITRATE	MG/L	21	22	3%
ORTHO PHOSPHATE	MG/L	0.27	0.26	3%
POTASSIUM - TOTAL	UG/L	62000	62000	0%
STYRENE	UG/L	< 5	< 5	
TETRACHLOROETHENE	UG/L	4	3	20%
TOLUENE	UG/L	< 5	< 5	
TOTAL ORGANIC CARBON	MG/L	< 1	< 1	
TOTAL XYLEMES	UG/L	< 5	< 5	
TRANS-1,2-DICHLOROETHENE	UG/L	< 5	< 5	
TRANS-1,3-DICHLOROPROPENE	UG/L	44	36	14%
TRICHLOROETHENE	UG/L	3	2	29%
VINYL CHLORIDE	UG/L	3	5	31%

RPD = Relative percent difference

RPD can only be calculated if both samples have detectable concentrations of analyte

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GROUNDWATER MONITORING

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French Ltd. Project

Field Duplicate Precision Summary

Compound	Units	INT-217	INT-217 Dup	RPD
1,1,1-TRICHLOROETHANE	UG/L	< 5	< 5	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 5	< 5	5
1,1,2-TRICHLOROETHANE	UG/L	< 5	< 5	5
1,1-DICHLOROETHANE	UG/L	5	6	12%
1,1-DICHLOROETHENE	UG/L	< 5	< 5	5
1,2-DICHLOROETHANE	UG/L	< 5	< 5	5
1,2-DICHLOROPROPANE	UG/L	< 5	< 5	5
2-BUTANONE	UG/L	< 10	< 10	10
2-HEXANONE	UG/L	< 10	< 10	10
4-METHYL-2-PENTANONE	UG/L	< 10	< 10	10
ACETONE	UG/L	< 10	< 10	10
AMMONIA	MG/L	0.1	0.11	6%
BENZENE	UG/L	16	18	8%
BROMODICHLOROMETHANE	UG/L	< 10	< 10	10
BROMOFORM	UG/L	< 5	< 5	5
BROMOMETHANE	UG/L	< 10	< 10	10
CARBON DISULFIDE	UG/L	< 5	< 5	5
CARBON TETRACHLORIDE	UG/L	< 5	< 5	5
CHLOROBENZENE	UG/L	3	3	0%
CHLOROETHANE	UG/L	< 10	< 10	10
CHLOROFORM	UG/L	< 5	< 5	5
CHLOROMETHANE	UG/L	< 10	< 10	10
CIS-1,2-DICHLOROETHENE	UG/L	< 5	< 5	5
CIS-1,3-DICHLOROPROPENE	UG/L	< 5	< 5	5
DIBROMOCHLOROMETHANE	UG/L	< 5	< 5	5
ETHYLBENZENE	UG/L	< 5	< 5	5
METHYLENE CHLORIDE	UG/L	< 5	< 5	5
NITROGEN, NITRATE	MG/L	< 0.05	< 0.05	
ORTHO PHOSPHATE	MG/L	1	0.56	42%
POTASSIUM - TOTAL	UG/L	2100	2000	3%
STYRENE	UG/L	< 5	< 5	5
TETRACHLOROETHENE	UG/L	< 5	< 5	5
TOLUENE	UG/L	< 5	< 5	5
TOTAL ORGANIC CARBON	MG/L	48.4	48.8	1%
TOTAL XYLEMES	UG/L	< 5	< 5	5
TRANS-1,2-DICHLOROETHENE	UG/L	< 5	< 5	5
TRANS-1,3-DICHLOROPROPENE	UG/L	< 5	< 5	5
TRICHLOROETHENE	UG/L	< 5	< 5	5
VINYL CHLORIDE	UG/L	9	9	0%

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GROUNDWATER MONITORING

July, 1996

French Ltd. Project

Field Duplicate Precision Summary

Compound	Units	S1-135	S1-135 Dup	RPD
1,1,1-TRICHLOROETHANE	UG/L	< 5	< 5	
1,1,2,2-TETRACHLOROETHANE	UG/L	< 5	< 5	
1,1,2-TRICHLOROETHANE	UG/L	< 5	< 5	
1,1-DICHLOROETHANE	UG/L	< 5	< 5	
1,1-DICHLOROETHENE	UG/L	< 5	< 5	
1,2-DICHLOROETHANE	UG/L	< 5	< 5	
1,2-DICHLOROPROPANE	UG/L	< 5	< 5	
2-BUTANONE	UG/L	< 10	< 10	
2-HEXANONE	UG/L	< 10	< 10	
4-METHYL-2-PENTANONE	UG/L	< 10	< 0	
ACETONE	UG/L	< 10	< 10	
AMMONIA	MG/L	0.44	0.44	0%
ARSENIC - TOTAL	UG/L	62	59	3%
BENZENE	UG/L	< 5	< 5	
BROMODICHLOROMETHANE	UG/L	< 10	< 10	
BROMOFORM	UG/L	< 5	< 5	
BROMOMETHANE	UG/L	< 10	< 10	
CARBON DISULFIDE	UG/L	< 5	< 5	
CARBON TETRACHLORIDE	UG/L	< 5	< 5	
CHLOROBENZENE	UG/L	< 5	< 5	
CHLOROETHANE	UG/L	< 10	< 10	
CHLOROFORM	UG/L	< 5	< 5	
CHLOROMETHANE	UG/L	< 10	< 10	
CHROMIUM - TOTAL	UG/L	< 10	< 10	
CIS-1,2-DICHLOROETHENE	UG/L	< 5	< 5	
CIS-1,3-DICHLOROPROPENE	UG/L	< 5	< 5	
DIBROMOCHLOROMETHANE	UG/L	< 5	< 5	
ETHYLBENZENE	UG/L	< 5	< 5	
LEAD - TOTAL	UG/L	5.1	5	1%
METHYLENE CHLORIDE	UG/L	< 5	< 5	
NITROGEN, NITRATE	MG/L	< 0.05	< 0.05	
ORTHO PHOSPHATE	MG/L	0.18	0.18	0%
POTASSIUM - TOTAL	UG/L	3800	3700	2%
STYRENE	UG/L	< 5	< 5	
TETRACHLOROETHENE	UG/L	< 5	< 5	
TOLUENE	UG/L	< 5	< 5	
TOTAL ORGANIC CARBON	MG/L	16	15	4%
TOTAL XYLEMES	UG/L	< 5	< 5	
TRANS-1,2-DICHLOROETHENE	UG/L	< 5	< 5	
TRANS-1,3-DICHLOROPROPENE	UG/L	< 5	< 5	
TRICHLOROETHENE	UG/L	< 5	< 5	
VINYL CHLORIDE	UG/L	< 10	< 10	

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Natural Attenuation Progress and
Site Status Report

French Limited Project
3rd Quarter, 1996

Attachment C
Sampling Method Comparison Summaries

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GROUNDWATER MONITORING

July, 1996

French Ltd Project

Sampling Method Comparison
Micro-purge vs BailedINT-101

	MP1	B	MP2	RPD		
				MP1 / MP2	MP1 / B	MP2 / B
1,1,1-TRICHLOROETHANE	<	5 <	5 <	5		
1,1,2,2-TETRACHLOROETHANE	<	5 <	5 <	5		
1,1,2-TRICHLOROETHANE	<	5 <	5 <	5		
1,1-DICHLOROETHANE	<	5 <	5 <	8		
1,1-DICHLOROETHENE	<	5 <	5 <	5		
1,2-DICHLOROETHANE	<	5 <	5 <	5		
1,2-DICHLOROPROPANE	<	5 <	5 <	5		
2-BUTANONE	<	10 <	10 <	10		
2-HEXANONE	<	10 <	10 <	10		
4-METHYL-2-PENTANONE	<	10 <	10 <	10		
ACETONE	<	10 <	10 <	10		
AMMONIA	<	0.1 <	0.1 <	0.1		
ARSENIC					67%	18%
BENZENE					68%	29%
BROMODICHLOROMETHANE	<	10 <	10 <	10		
BROMOFORM	<	5 <	5 <	5		
BROMOMETHANE	<	10 <	10 <	10		
CARBON DISULFIDE	<	5 <	5 <	5		
CARBON TETRACHLORIDE	<	5 <	5 <	5		
CHLOROBENZENE	<	5 <	5 <	5		
CHLOROETHANE	<	10 <	10 <	10		
CHLOROFORM	<	5 <	5 <	5		
CHLOROMETHANE	<	10 <	10 <	10		
CHROMIUM - TOTAL	<	10 <	10 <	10		
CIS-1,2-DICHLOROETHENE	<	5 <	5 <	5		
CIS-1,3-DICHLOROPROPENE	<	5 <	5 <	5		
DIBROMOCHLOROMETHANE	<	5 <	5 <	5		
ETHYLBENZENE	<	5 <	5 <	5		
LEAD - TOTAL	<	3	3	3		
METHYLENE CHLORIDE	<	5 <	5 <	5		
NITROGEN, NITRATE	<	0.05 <	0.05 <	0.05		
ORTHO PHOSPHATE					156%	2%
POTASSIUM					45%	37%
STYRENE	<	5 <	5 <	5		
TETRACHLOROETHENE	<	5	7 <	5		
TOLUENE	<	5 <	5 <	5		
TOTAL ORGANIC CARBON					69%	39%
TOTAL XYLENES	<	5 <	5 <	5		
TRANS-1,2-DICHLOROETHENE	<	5 <	5 <	5		
TRANS-1,3-DICHLOROPROPENE	<	5 <	5 <	5		
TRICHLOROETHENE	<	5 <	5 <	5		
VINYL CHLORIDE	<	10 <	10 <	10		

RPD = Relative percent difference

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July, 1996

French Ltd Project

Sampling Method Comparison
Micro-purge vs BailedINT-127

	MP1	B	MP2	RPD		
				MP1 / MP2	MP1 / B	MP2 / B
1,1,1-TRICHLOROETHANE	<	50	< 50	< 50		
1,1,2,2-TETRACHLOROETHANE	<	50	< 50	< 50		
1,1,2-TRICHLOROETHANE	<	50	< 50	< 50		
1,1-DICHLOROETHANE	<	50	31	54		
1,1-DICHLOROETHENE	<	50	< 50	< 50		
1,2-DICHLOROETHANE	<	50	< 50	< 50		
1,2-DICHLOROPROPANE	<	50	< 50	< 50		
2-BUTANONE	<	100	< 100	< 100		
2-HEXANONE	<	100	< 100	< 100		
4-METHYL-2-PENTANONE	<	100	< 100	< 100		
ACETONE	<	100	< 100	< 100		
AMMONIA					141%	118%
BENZENE					21%	0%
BROMODICHLOROMETHANE	<	50	< 50	< 50		
BROMOFORM	<	50	< 50	< 50		
BROMOMETHANE	<	100	< 100	< 100		
CARBON DISULFIDE	<	50	< 50	< 50		
CARBON TETRACHLORIDE	<	50	< 50	< 50		
CHLOROBENZENE	<	50	< 50	< 50		
CHLOROACETIC ACID					54%	63%
CHLOROFORM	<	50	< 50	< 50		
CHLORMETHANE	<	100	< 170	< 100		
CIS-1,2-DICHLOROETHENE	<	50	< 50	< 50		
CIS-1,3-DICHLOROPROPENE	<	50	< 50	< 50		
DIBROMOCHLOROMETHANE	<	50	< 50	< 50		
ETHYLBENZENE	<	50	< 50	< 50		
METHYLENE CHLORIDE	<	50	< 23	< 50		
NITROGEN, NITRATE	<	0.05	0.46	< 0.05		
ORTHO-XYLENE					135%	139%
POTASSIUM IODIDE					122%	87%
STYRENE	<	50	< 50	< 50		
TETRACHLOROETHENE	<	50	< 50	< 50		
TOLUENE					5%	7%
TOTAL CHLORINE					31%	27%
TOTAL XYLENE					16%	3%
TRANS-1,2-DICHLOROETHENE	<	50	< 50	< 50		
TRANS-1,3-DICHLOROPROPENE	<	50	< 50	< 50		
TRICHLOROETHENE	<	50	< 50	< 50		
VINYL CHLORIDE	<	100	< 100	< 100		

RPD = Relative percent difference

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GROUNDWATER MONITORING

July, 1996

French Ltd Project

Sampling Method Comparison
Micro-purge vs BailedINT-130RS

	MP1	B	MP2	RPD	MP1 / MP2	MP1 / B	MP2 / B
1,1,2,2-TETRACHLOROETHANE	< 5	< 50	< 5				
1,1,2-TRICHLOROETHANE	< 5	< 50	< 5				
1,1-DICHLOROETHANE	< 4	< 50	< 5				
1,2-DICHLOROETHANE	< 30	< 340	< 40	25%	53%	76%	
1,2-DICHLOROPROPANE	< 5	< 50	< 5				
2-BUTANONE	< 10	< 50	< 10				
2-HEXANONE	< 10	< 50	< 10				
4-METHYL-2-PENTANONE	< 10	< 50	< 10				
ACETONE	< 10	< 50	< 10				
AMMONIA	< 0.1	< 0.1	< 0.1				
ARSENIC - TOTAL	<	< 10					
BENZENE	21	< 50	12				
BROMODICHLOROMETHANE	< 10	< 50	< 10				
BROMOFORM	< 5	< 50	< 5				
BROMOMETHANE	< 10	< 50	< 10				
CARBON DISULFIDE	< 5	< 50	< 5				
CARBON TETRACHLORIDE	< 100	< 100	< 10	122%	100%	31%	
CHLOROBENZENE	< 5	< 50	< 5				
CHLOROETHANE	< 10	< 50	< 10				
CHLOROFORUM	< 100	< 100	< 10	37%	12%	48%	
CHLOROMETHANE	< 10	< 50	< 10				
CHROMIUM - TOTAL	<	< 10					
CIS-1,2-DICHLOROETHANE	< 90	< 50	< 10	112%	44%	78%	
CIS-1,3-DICHLOROPROPENE	< 5	< 50	< 5				
DIBROMOCHLOROMETHANE	< 5	< 50	< 5				
ETHYLBENZENE	< 5	< 50	< 5				
LEAD - TOTAL	<	< 3					
METHYLENE CHLORIDE	10	< 50	11				
NITROGEN, TOTAL	< 20	< 34	< 32	46%	52%	6%	
STYRENE	< 5	< 50	< 5				
TETRACHLOROETHANE	< 100	< 100	< 100	76%	47%	32%	
TOLUENE	< 5	< 50	< 5				
TOTAL ORGANIC CARBON	< 10	< 6.8	< 7.6	27%	38%	11%	
TOTAL XYLEMES	3	42	46				
TRANS-1,2-DICHLOROETHENE	< 5	< 50	< 5				
TRANS-1,3-DICHLOROPROPENE	< 5	< 50	< 5				
TRICHLOROETHANE	< 70	< 120	< 20	45%	45%	0%	
VINYL CHLORIDE	< 50	< 210	< 89	95%	17%	81%	

RPD = Relative percent difference

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GROUNDWATER MONITORING

July, 1996

French Ltd Project

Sampling Method Comparison
Micro-purge vs Bailed

INT-134

	MP1	B	MP2	RPD		
				MP1 / MP2	MP1 / B	MP2 / B
1,1,2,2-TETRACHLOROETHANE	<	5	< 5	< 5		
1,1,2-TRICHLOROETHANE	<	5	< 5	< 5		
1,1-DICHLOROETHANE	<	10	< 80	< 10	0%	32% 32%
1,1-DICHLOROETHENE	<	5	< 5	< 5		
1,2-DICHLOROETHANE	<	5	< 76	< 100	16%	11% 27%
1,2-DICHLOROPROPANE	<	5	< 5	< 5		
2-BUTANONE	<	10	< 10	< 10		
2-HEXANONE	<	10	< 10	< 10		
4-METHYL-2-PENTANONE	<	10	< 10	< 10		
ACETONE	<	10	< 13	< 10		
AMMONIA	<	5	< 25	< 25	72%	62% 11%
BENZENE	<	5	< 34	< 34	14%	45% 32%
BROMODICHLOROMETHANE	<	10	< 10	< 10		
BROMOFORM	<	5	< 5	< 5		
BROMOMETHANE	<	10	< 10	< 10		
CARBON DISULFIDE	<	5	< 5	< 5		
CARBON TETRACHLORIDE	<	5	< 5	< 5		
CHLOROBENZENE	<	5	< 5	< 5		
CHLOROETHANE	<	10	< 10	< 10		
CHLOROFORM	<	5	< 5	< 6		
CHLOROMETHANE	<	10	< 10	< 10		
CIS-1,2-DICHLOROETHANE	<	6	< 18	< 23	48%	12% 36%
CIS-1,3-DICHLOROPROPENE	<	5	< 5	< 5		
DIBROMOCHLOROMETHANE	<	5	< 5	< 5		
ETHYLBENZENE	<	5	< 5	< 5		
METHYLENE CHLORIDE	<	5	< 5	< 5		
NITROGEN, NITRATE	<	5	< 2.5	< 2.5		
ORTHO PHOSPHATE	<	5	< 2.7	< 2.7	95%	105% 39%
POTASSIUM - TEST	<	5	< 0.000	< 0.000	156%	
STYRENE	<	5	< 5	< 5		
TETRACHLOROETHENE	<	5	< 5	< 5		
TOLUENE	<	5	< 5	< 5		
TOTAL ORGANIC CARBON	<	5	< 13	< 13	14%	14% 0%
TOTAL XYLENES	<	5	< 5	< 5		
TRANS-1,2-DICHLOROETHENE	<	5	< 5	< 5		
TRANS-1,3-DICHLOROPROPENE	<	5	< 5	< 5		
TRICHLOROETHENE	<	5	< 5	< 5		
VINYL CHLORIDE	<	5	< 5	< 5	53%	7% 46%

RPD = Relative percent difference

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GROUNDWATER MONITORING

July, 1996

Sampling Method Comparison
Micro-purge vs Bailed

French Ltd Project

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	MP1	B	MP2	RPD		
				MP1 / MP2	MP1 / B	MP2 / B
1,1,2,2-TETRACHLOROETHANE	< 50	< 5	< 50			
1,1,2-TRICHLOROETHANE	< 50	< 5	< 50			
1,1-DICHLOROETHANE	< 50	< 5	< 50	74%	169%	138%
1,1-DICHLOROETHENE	< 50	< 5	< 50			
1,2-DICHLOROETHANE	< 10000	< 1000	< 1000	92%	188%	170%
1,2-DICHLOROPROPANE	< 50	< 5	< 50			
2-BUTANONE	< 100	< 10	< 100			
2-HEXANONE	< 100	< 10	< 100			
4-METHYL-2-PENTANONE	< 100	< 10	< 100			
ACETONE	< 100	54	< 100			
AMMONIA	< 14	< 10	< 10	0%	11%	11%
BENZENE	< 50	< 5	< 50			
BROMODICHLOROMETHANE	< 50	< 10	< 100			
BROMOFORM	< 50	< 5	< 50			
BROMOMETHANE	< 100	< 10	< 100			
CARBON DISULFIDE	< 50	< 5	< 50			
CARBON TETRACHLORIDE	< 50	< 5	< 50			
CHLOROBENZENE	< 50	< 5	< 50			
CHLOROETHANE	< 100	< 10	< 100			
CHLOROFORM	< 10000	< 1000	< 1000	108%	187%	161%
CHLOROMETHANE	< 100	< 10	< 100			
CIS-1,2-DICHLOROETHENE	< 50	76	860			
CIS-1,3-DICHLOROPROPENE	< 50	< 5	< 50			
DIBROMOCHLOROMETHANE	< 50	< 5	< 50			
ETHYLBENZENE	< 50	< 5	< 50			
METHYLENE CHLORIDE	1800	< 5	760			
NITROGEN, NITRATE	< 0.05	1.8	3.1			
ORTHO PHOSPHATE	< 94	< 88	< 27	111%	85%	34%
POTASSIUM	< 5000	< 1000	< 1000	29%	43%	15%
STYRENE	< 50	< 5	< 50			
TETRACHLOROETHANE	< 100	< 10	< 100	48%	175%	161%
TOLUENE	43	< 5	< 50			
TOTAL ORGANIC CARBON	9.3	< 10	< 5.5	51%	42%	10%
TOTAL XYLENES	38	< 5	< 50			
TRANS-1,2-DICHLOROETHENE	< 50	< 5	< 50			
TRANS-1,3-DICHLOROPROPENE	< 50	< 5	< 50			
TRICHLOROETHANE	< 2200	< 17	< 760	97%	188%	168%
VINYL CHLORIDE	2600	< 10	500			

RPD = Relative percent difference

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GROUNDWATER MONITORING

July, 1996

French Ltd Project

Sampling Method Comparison
Micro-purge vs BailedINT-233

	MP1	B	MP2	RPD		
				MP1 / MP2	MP1 / B	MP2 / B
1,1,2,2-TETRACHLOROETHANE	<	50	<	50	<	25
1,1,2-TRICHLOROETHANE	<	50	<	50	<	25
1,1-DICHLOROETHANE	<	50	<	50	<	25
1,1-DICHLOROETHENE	<	50	<	50	<	25
1,2-DICHLOROETHANE	<	50	<	50	<	25
1,2-DICHLOROPROPANE	<	50	<	50	<	25
2-BUTANONE	<	100	<	100	<	50
2-HEXANONE	<	100	<	100	<	50
4-METHYL-2-PENTANONE	<	100	<	100		52
ACETONE	<	100	<	100		780
AMMINE						
BENZENE						
BROMODICHLOROMETHANE	<	50	<	10	<	25
BROMOFORM	<	50	<	50	<	25
BROMOMETHANE	<	100	<	100	<	50
CARBON DISULFIDE	<	50	<	50	<	25
CARBON TETRACHLORIDE	<	50	<	50	<	25
CHLOROBENZENE	<	50	<	50	<	25
CHLOROETHANE	<	100	<	250	<	300
CHLOROFORM	<	50	<	50	<	25
CHLORMETHANE	<	100	<	100	<	50
CIS-1,2-DICHLOROETHENE	<	50	<	50	<	25
CIS-1,3-DICHLOROPROPENE	<	50	<	50	<	25
DIBROMOCHLOROMETHANE	<	50	<	50	<	25
ETHYLBENZENE						
METHYLENE CHLORIDE	<	50		40	<	25
NITROGEN, NITRATE	<	0.05	<	0.05		
ORTHO PHOSPHATE						
POTASSIUM - TOTAL						
STYRENE	<	50	<	50	<	25
TETRACHLOROETHENE	<	50	<	50	<	25
TOLUENE						
TOTAL ORGANIC						
TOTAL XYLYLE						
TRANS-1,2-DICHLOROETHENE	<	50	<	50	<	25
TRANS-1,3-DICHLOROPROPENE	<	50	<	50	<	25
TRICHLOROETHENE	<	50	<	50	<	25
VINYL CHLORIDE	<	100	<	100	<	50

RPD = Relative percent difference

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GROUNDWATER MONITORING

July, 1996

French Ltd Project

Sampling Method Comparison
Micro-purge vs Bailed

S1-131

	MP1	B	MP2	RPD		
				MP1 / MP2	MP1 / B	MP2 / B
1,1,2,2-TETRACHLOROETHANE	<	5	<	5	5	
1,1,2-TRICHLOROETHANE	<	5	<	5	<	5
1,1-DICHLOROETHANE	<	5	<	5	<	5
1,1-DICHLOROETHENE	<	5	<	5	<	5
1,2-DICHLOROETHANE		6	<	5	<	5
1,2-DICHLOROPROPANE	<	5	<	5	<	5
2-BUTANONE	<	10	<	10	<	10
2-HEXANONE	<	10	<	10	<	10
4-METHYL-2-PENTANONE	<	10	<	10	<	10
ACETONE		17	<	10	<	10
AMMONIA					75%	115%
BENZENE					34%	7%
BROMODICHLOROMETHANE	<	10	<	10	<	10
BROMOFORM	<	5	<	5	<	5
BROMOMETHANE	<	10	<	10	<	10
CARBON DISULFIDE	<	5	<	5	<	5
CARBON TETRACHLORIDE	<	5	<	5	<	5
CHLOROBENZENE	<	5	<	5	<	5
CHLOROETHANE	<	10	<	10	<	10
CHLOROFORM	<	5	<	5	<	2
CHLOROMETHANE	<	10	<	10	<	10
CIS-1,2-DICHLOROETHENE	<	5	<	5	<	5
CIS-1,3-DICHLOROPROPENE	<	5	<	5	<	5
DIBROMOCHLOROMETHANE	<	5	<	5	<	5
ETHYLBENZENE	<	5	<	5	<	5
METHYLENE CHLORIDE	<	5	<	5	<	5
NITROGEN, NITRATE					199%	199%
ORTHO PHOSPHATE					0%	62%
POTASSIUM					4%	32%
STYRENE	<	5	<	5	<	5
TETRACHLOROETHENE	<	5	<	5	<	5
TOLUENE	<	5	<	5	<	5
TOTAL ORGANIC CARBON	<	10	<	10	<	10
TOTAL XYLENES	<	5	<	5	<	5
TRANS-1,2-DICHLOROETHENE	<	5	<	5	<	5
TRANS-1,3-DICHLOROPROPENE	<	5	<	5	<	5
TRICHLOROETHENE	<	5	<	5	<	5
VINYL CHLORIDE	<	10	<	10	<	10

RPD = Relative percent difference